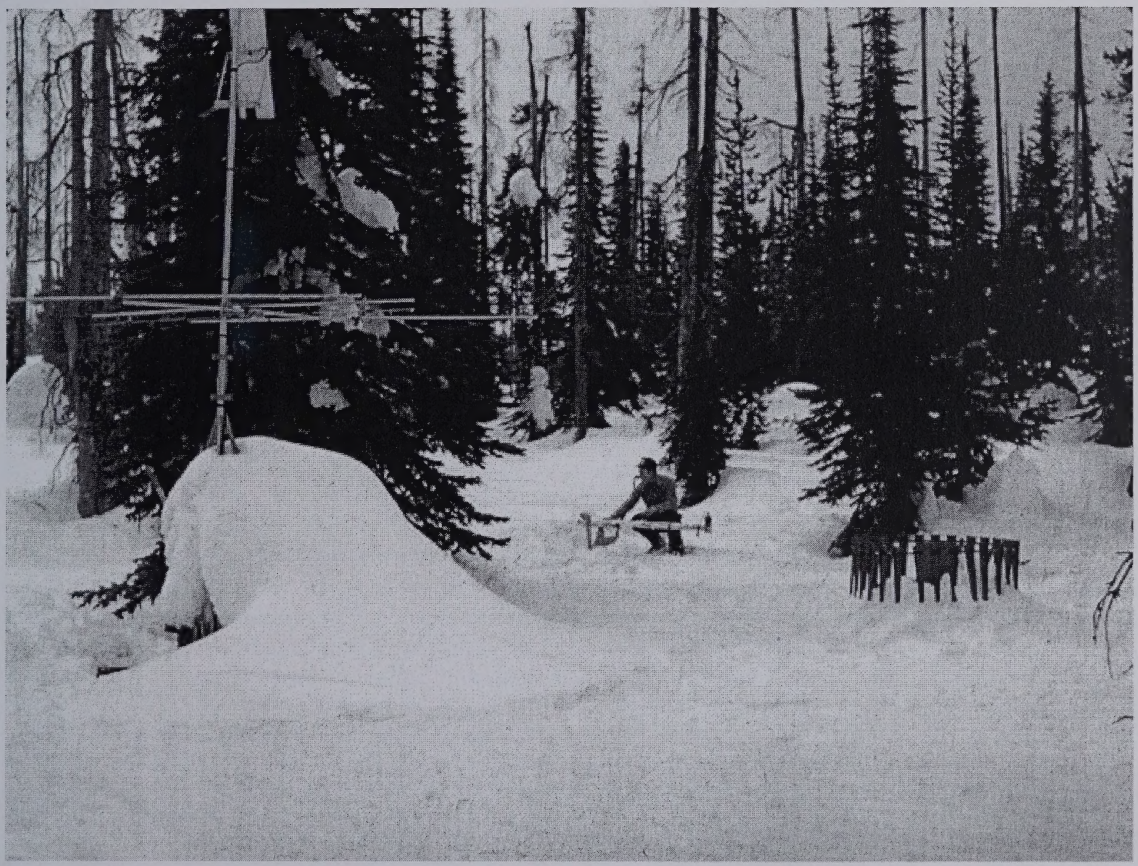
USDA United States Department of Agriculture

Natural Resources Conservation Service

Montana Water Supply Outlook Report April 1, 2006



Picture: Black Bear SNOTEL Site - Winter of 1997

Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:
See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

The United States Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C., 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

United States Department of Agriculture
Natural Resources Conservation Service
Bozeman, Montana

(406) 587-6811
10 E Babcock
Federal Bldg Room 443
Bozeman MT 59715

Where to Get More Information

This contact list provides you with the names and phone numbers of individuals who can provide more detailed snow survey information for each county.

Beaverhead County
Victor Hager
683-3800

Big Horn County
Evan Van Order
665-3442

Blaine County
Matthew Crampton
357-2320

Broadwater County
Karla Ware
266-3146

Carbon County
Gregory Evertz
962-3641

Carter County
Wayne Yost
775-6355

Cascade County
Mark Delperdang
727-7580

Chouteau County
Dan Van Voast
622-5627

Custer County
Rusty Irion
232-7905

Daniels County
Valerie Oksendahl
487-5366

Dawson County
Linda Peterson-Lohse
365-5566

Deer Lodge County
Glen Green
846-1703

Fallon County
Ann Fischer
778-2217

Fergus County
Patty Creamer
538-7401

Flathead County
Angel Rosario
752-4242

Gallatin County
Matt Drechsel
522-4018

Garfield County
Sue Fitzgerald
557-2232

Glacier County
Mark Johnson
873-4292

Golden Valley County
Vacant
323-2103

Granite County
Mary McDonald
859-3291

Hill County
Deana Grabofsky
265-6792

Jefferson County
Julie Sacks
287-3215

Judith Basin County
Rick Caquelin
566-2311

Lake County
David Wolf
676-2841

Lewis and Clark County
Mindy Gauthier
449-5000

Liberty County
Dawn Wickum
759-5778

Lincoln County
Kirk Sullivan
296-2233

Madison County
Ole Berkram
842-5741

McCone County
Regan Kirchner
485-2744

Meagher County
Tammy DeCock
547-3633

(over)

Mineral County
Tony Prince
829-3395

Missoula County
Tony Prince
829-3395

Musselshell County
Vacant
323-2103

Park County
Ron Hoagland
222-2899

Petroleum County
Nikki Rife
429-6646

Phillips County
Lorna Philp
654-1334

Pondera County
Stacy Eneboe
278-3922

Powder River County
Carol Hilliard
436-2417

Powell County
Glen Green
846-1703

Prairie County
Dick Scheetz
635-5381

Ravalli County
Henry Burkwhat
363-5010

Richland County
Jamie Selting
433-2103

Roosevelt County
Robert Bray
787-5232

Rosebud County
Rocky Schwagler
346-7333

Sanders County
Don Feist
826-3701

Sheridan County
Monica Friedrich
765-1801

Silver Bow County
Julie Sacks
287-3215

Stillwater County
Philip Sandoval
322-5359

Sweet Grass County
Chuck Roloff
932-5160

Teton County
Thedis Crowe
466-5722

Toole County
Misty Vermulm
434-5234

Treasure County
Danae Pinkerton
342-5510

Valley County
Denise Wiedenheft
228-4321

Wheatland County
John Oiestad
632-5534

Wibaux County
Katrina Johnson
796-2211

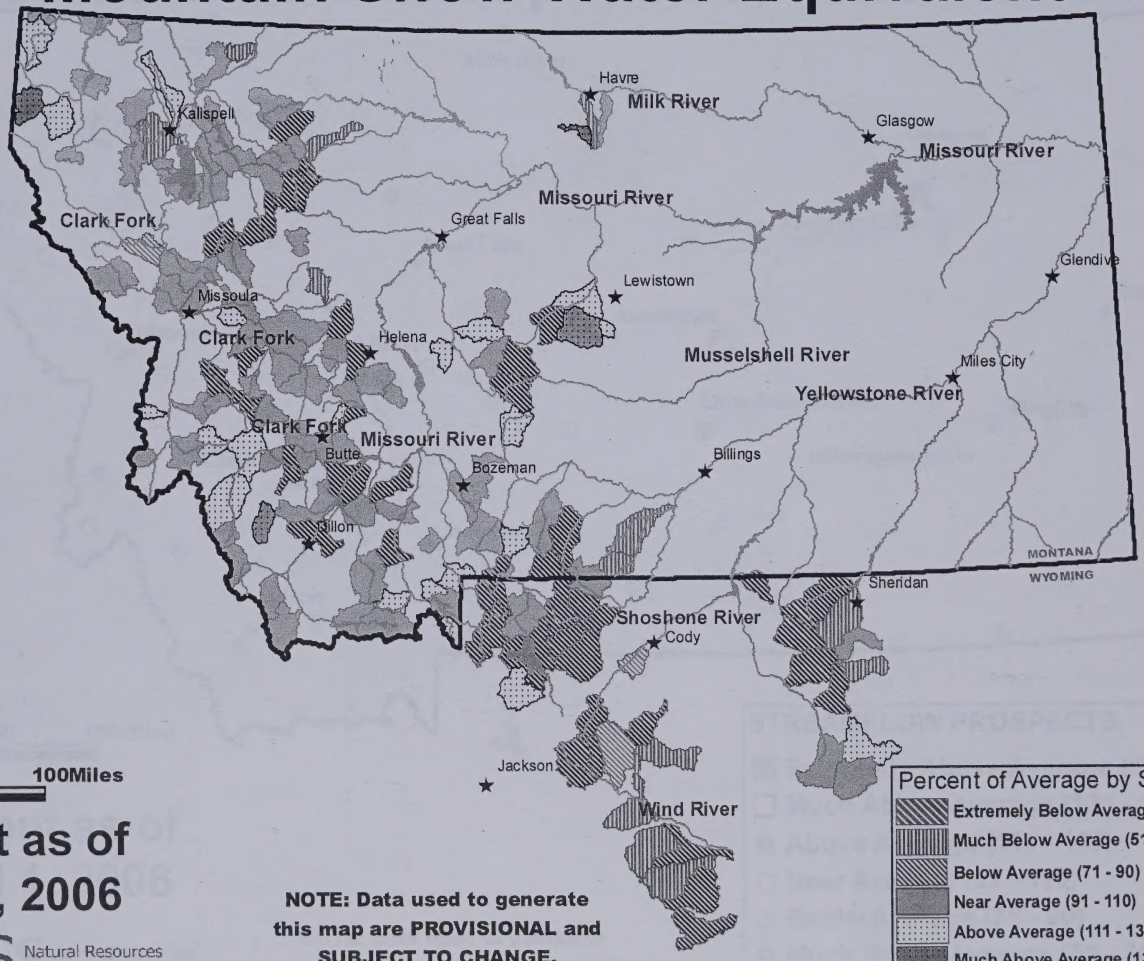
Yellowstone County
Valerie Roberson
657-6135

1/5/06

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Mountain Snow Water Equivalent



Current as of April 1, 2006

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Percent of Average by Sub-Basin

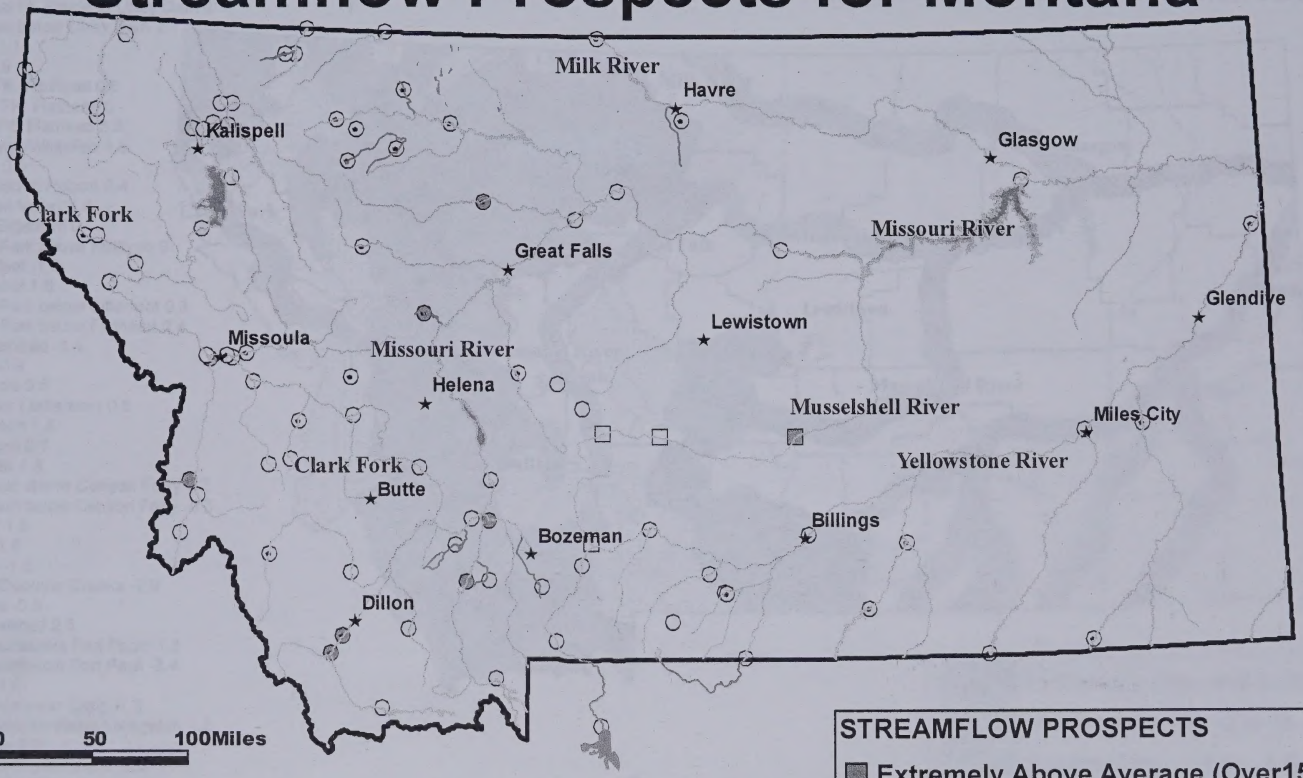
- Extremely Below Average (Below 51)
- Much Below Average (51 - 70)
- Below Average (71 - 90)
- Near Average (91 - 110)
- Above Average (111 - 130)
- Much Above Average (131 - 150)
- Extremely Above Average (Over150)

Mountain Snow Water Equivalent

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana



Current as of April 1, 2006

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

STREAMFLOW PROSPECTS

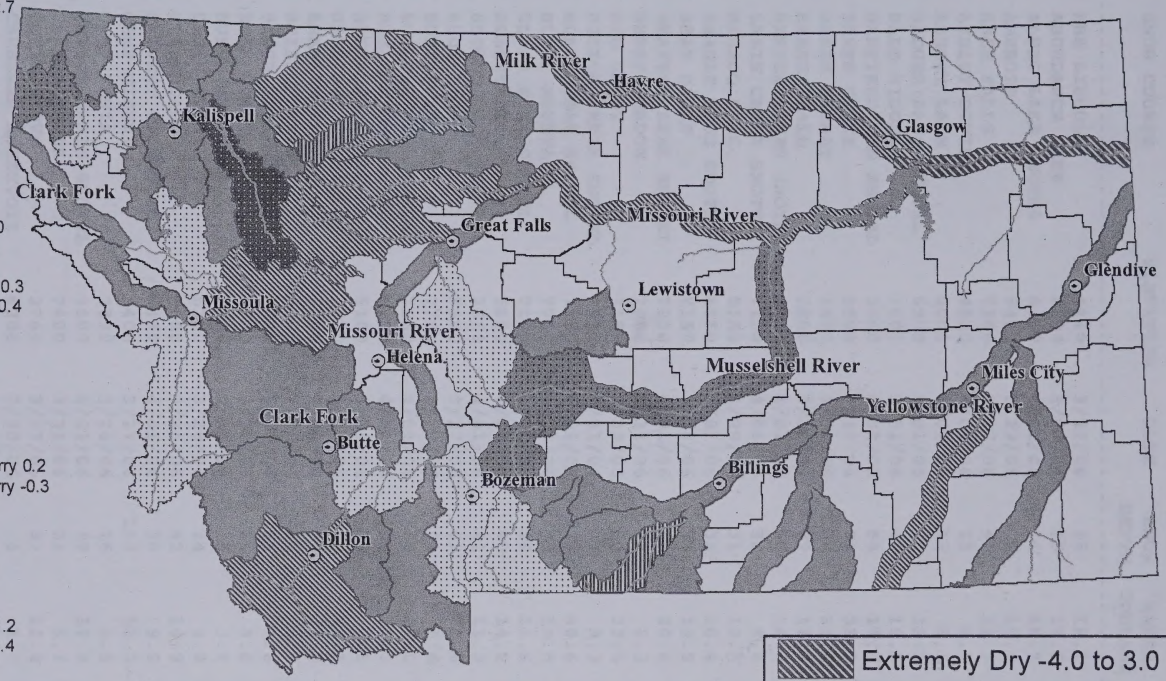
- Extremely Above Average (Over150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

RIVER INDEX & SWSI VALUES

1 Marias above Tiber Reservoir -1.7
2 Tobacco 1.2
3 Kootenai Ft. Steele to Libby Dam 0
4 Kootenai below Libby Dam 2.7
5 Fisher 1.1
6 Yaak 0.9
7 North FK. Flathead 0.6
8 Middle FK. Flathead 0
9 South FK. Flathead 3.3
11 Stillwater/Whitefish 1.5
12 Swan 0.6
13 Flathead at Polson 0.4
14 Mission Valley 1.4
15 Little Bitterroot 0
16 Clark Fork above Milltown 0
17 Blackfoot -1.9
19 Bitterroot 1.8
20 Clark Fork below Bitterroot 0.3
21 Clark Fork below Flathead 0.4
22 Beaverhead -1.4
23 Ruby 0.9
24 Big Hole 0.5
25 Boulder (Jefferson) 0.8
26 Jefferson 1.4
27 Madison 0.7
28 Gallatin 1.8
29 Missouri above Canyon Ferry 0.2
30 Missouri below Canyon Ferry -0.3
31 Smith 1.5
32 Sun -1.5
33 Teton -1.6
34 Birch/Dupuyer Creeks -2.9
35 Marias -0.5
36 Musselshell 2.3
37 Missouriabove Fort Peck -1.2
38 Missouribelow Fort Peck -3.4
39 Milk -1.6
40 Dearbornnear Craig -1.3
41 Yellowstone above Livingston 1.2
42 Shields 2.2
43 Boulder(Yellowstone) 0.6
44 Stillwater 0.9
45 Rock/Red Lodge Creeks -2.6
46 Clarks Fork 0.2
47 Yellowstone above Bighorn 0.9
48 Bighorn below Bighorn Lake -0.3
49 Little Bighorn -0.2
50 Yellowstone below Bighorn 0.4
51 Tongue -1.3
52 Powder -0.5
53 Judith Basin -0.6
54 ST Mary River 0



Extremely Dry -4.0 to 3.0
Moderately Dry -2.9 to -2.0
Slightly Dry -1.9 to -1.0
Near Average -0.9 to 0.9
Sightly Wet 1.0 to 1.9
Moderately Wet 2.0 to 2.9
Extremely Wet 3.0 to 4.0
SWSI Not Apllicable

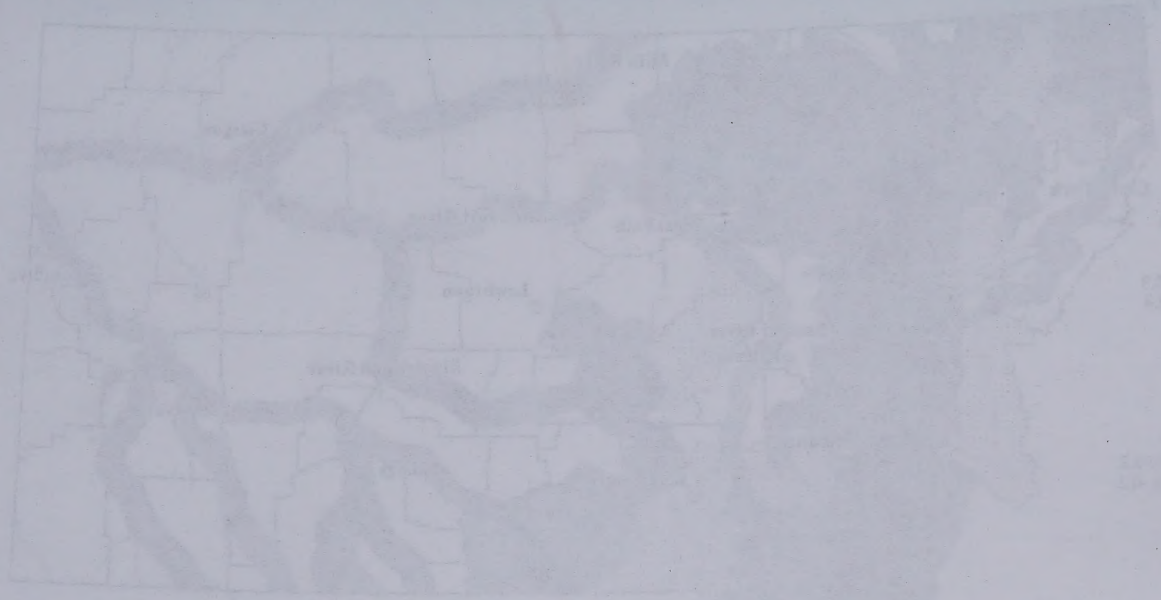
Current as of April 1, 2006

0 45 90 Miles

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov



APRIL 2006 SNOTEL AND SNOW COURSE SUMMARY

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABE LINCOLN	4440	3/27/06	55	19.1	7.2	18.9
ABUNDANCE LAKE	8800	3/25/06	55	17.3	10.0	20.6
ALBRO LAKE SNOTEL	8300	4/01/06	64	18.8	12.3	20.8
AMBROSE	6480	3/29/06	35	10.0	4.9	12.4
ARCH FALLS	7350	3/27/06	41	11.3	8.1	11.9
ASHLEY DIVIDE	4820	4/04/06	13	4.2	1.9	6.0
ASHLEY LAKE	4000	4/04/06	12	3.5	1.4	5.5
BADGER PASS SNOTEL	6900	4/01/06	77	33.3	19.4	35.3
BALD RIDGE	7500	3/31/06	48	15.2	9.3	12.4
BANFIELD MTN SNOTEL	5600	4/01/06	54	17.6	9.0	19.8
BAREE CREEK	5500	3/30/06	89	33.3	20.8	43.1
BAREE MIDWAY	4600	3/30/06	86	33.4	14.4	33.0
BAREE TRAIL	3800	3/30/06	37	11.8	2.6	7.7
BARKER LAKES SNOTEL	8250	4/01/06	57	14.4	10.5	14.6
BASIN CREEK SNOTEL	7180	4/01/06	32	8.6	5.2	8.7
BASSOO PEAK	5150	3/29/06	31	10.3	3.6	9.7
BEAGLE SPGS SNOTEL	8850	4/01/06	38	10.4	7.2	9.3
BEAR BASIN	8150	3/26/06	72	19.5	14.4	20.4
BEAVER CREEK SNOTEL	7850	4/01/06	69	20.6	14.0	18.2
BERRY MEADOW	7000	3/31/06	24	6.3	3.7	7.4
BIG SNOWY	7150	3/29/06	62	23.4	14.3	20.2
BISSON CREEK SNOTEL	4920	4/01/06	27	9.3	5.3	9.9
BLACK BEAR SNOTEL	7950	4/01/06	129	48.6	33.1	39.8
BLACK MOUNTAIN	7750	3/28/06	49	14.5	10.0	14.6
BLACK PINE SNOTEL	7100	4/01/06	36	11.6	7.3	12.5
BLACKTAIL	5650	4/04/06	40	14.2	7.1	14.2
BLOODY DICK SNOTEL	7550	4/01/06	41	11.9	6.6	12.6
BLUE LAKE	5900	3/27/06	59	20.6	14.6	23.7
BOTS SOTS	7750	3/28/06	22	5.6	5.2	7.8
BOULDER MTN SNOTEL	7950	4/01/06	68	23.0	13.8	20.4
BOX CANYON SNOTEL	6700	4/01/06	33	10.3	8.0	10.4
BOXELDER CREEK	5100	3/29/06	30	7.8	4.4	7.6
BRACKETT CR SNOTEL	7320	4/01/06	59	22.3	19.0	21.5
BRANHAM LAKES	8850	3/28/06	84	31.2	20.2	28.9
BRISTOW CREEK	3900	3/28/06	28	8.9	2.8	8.4
BRUSH CREEK TIMBER	5000	3/28/06	24	7.8	2.0	8.1
BULL MOUNTAIN	6600	3/30/06	21	6.0	1.9	5.9
BURNT MTN SNOTEL	5880	4/01/06	7	3.4	2.7	--
CABIN CREEK	5200	3/28/06	14	3.8	1.5	5.4
CALL ROAD	8050	3/26/06	42	10.2	6.6	11.9
CALVERT CR SNOTEL	6430	4/01/06	30	9.9	3.7	8.1
CAMP MISERY	6400	3/27/06	130	53.9	30.8	49.3
CAMP SENIA	7890	3/28/06	16	3.3	3.0	6.2
CARROT BASIN SNOTEL	9000	4/01/06	99	31.8	19.8	28.1
CARTER CREEK	7400	3/31/06	21	5.7	2.6	6.3
CEDAR GROVE	3760	3/27/06	37	11.4	5.8	11.4
CHESSMAN RESERVOIR	6200	3/30/06	4	1.3	2.1	3.5
CHICKEN CREEK	4060	3/29/06	49	18.5	8.6	15.2
CLOVER MDW SNOTEL	8800	4/01/06	59	15.9	13.1	18.0
COLE CREEK SNOTEL	7850	4/01/06	36	9.9	11.3	16.4
COLLEY CREEK	6300	3/31/06	30	8.7	5.7	7.9
COMBINATION SNOTEL	5600	4/01/06	12	4.1	2.6	4.9
COPPER BOTTOM SNOTEL	5200	4/01/06	19	6.2	.0	11.0
COPPER CAMP SNOTEL	6950	4/01/06	105	43.8	23.2	--
COPPER CREEK	5700	3/25/06	26	8.5	.5	13.3
COPPER MOUNTAIN	7700	3/27/06	42	12.3	8.0	11.2
COTTONWOOD CREEK	6400	3/28/06	25	7.2	4.8	8.3
COYOTE HILL	4200	3/30/06	23	8.2	4.0	8.7
CREVICE MOUNTAIN	8400	3/30/06	44	11.2	5.0	10.8
CRYSTAL LAKE SNOTEL	6050	4/01/06	54	18.7	11.7	12.3
DAD CREEK LAKE	8400	3/25/06	57	13.7	9.4	14.9

APRIL 2006 SNOTEL AND SNOW COURSE SUMMARY

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
DAISY PEAK SNOTEL	7600	4/01/06	40	10.0	8.5	11.0
DALY CREEK SNOTEL	5780	4/01/06	32	10.6	7.7	11.1
DARKHORSE LK. SNOTEL	8700	4/01/06	91	30.6	19.7	32.5
DAVIS CREEK	5400	3/28/06	74	27.6	13.1	24.2
DEADMAN CR SNOTEL	6450	4/01/06	38	12.2	8.4	10.0
DESERT MOUNTAIN	5600	3/25/06	43	14.2	9.6	14.7
DISCOVERY BASIN	7050	3/27/06	33	9.0	5.8	10.4
DIVIDE SNOTEL	7800	4/01/06	50	11.9	9.5	11.3
DIX HILL	6400	4/02/06	29	9.9	3.6	10.3
DUPUYER CREEK SNOTEL	5750	4/01/06	18	5.9	3.2	9.9
EAGLE CREEK	7000	3/29/06	42	13.9	9.8	13.8
EAST FORK R.S.	5400	3/27/06	19	5.3	1.0	4.7
EL DORADO MINE	7800	3/26/06	45	13.0	11.3	20.2
ELK HORN SPRINGS	7800	3/25/06	40	13.2	4.0	9.1
ELK PEAK	8000	3/29/06	44	13.0	13.0	16.1
EMERY CREEK SNOTEL	4350	4/01/06	37	14.1	7.1	15.3
FATTY CREEK	5500	3/31/06	66	26.3	14.8	24.3
FISH CREEK	8000	3/27/06	38	8.8	4.6	9.9
FISHER CREEK SNOTEL	9100	4/01/06	108	39.0	24.8	35.4
FIVE-BULL	5700	3/25/06	16	3.7	3.2	5.5
FLATTOP MTN SNOTEL	6300	4/01/06	128	47.9	31.0	45.1
FLEECER RIDGE	7500	3/30/06	36	9.6	5.4	10.9
FOOLHEN	8280	3/25/06	55	17.4	7.8	16.2
FOREST LAKE	6400	3/29/06	35	11.0	8.2	11.7
FOUR MILE	6900	3/27/06	28	7.0	5.0	8.4
FOURTH OF JULY	3450	3/27/06	28	9.8	2.0	7.4
FRED BURR PASS	8000	3/27/06	66	23.1	11.4	23.9
FREIGHT CREEK	6000	3/27/06	37	10.8	4.0	14.8
FROHNER MDWS SNOTEL	6480	4/01/06	26	7.5	7.2	8.0
GARVER CREEK SNOTEL	4250	4/01/06	34	9.9	6.6	9.9
GIBBONS PASS	7100	3/27/06	69	25.2	10.2	22.7
GOAT MOUNTAIN	7000	3/28/06	31	8.8	3.0	9.7
GOLD CREEK LAKE	7200	3/26/06	63	19.8	8.3	14.7
GOLD STONE	8100	3/25/06	44	13.1	7.0	16.9
GRASSHOPPER	7000	3/29/06	16	5.1	3.6	5.8
GRAVE CRK SNOTEL	4300	4/01/06	47	16.8	8.9	15.6
GRIFFIN CR DIVIDE	5150	3/29/06	30	10.7	3.4	10.3
GUNSIGHT LAKE	6300	3/25/06	87	36.4	22.0	39.3
HAND CREEK SNOTEL	5030	4/01/06	34	12.1	2.8	11.7
HAWKINS LAKE SNOTEL	6450	4/01/06	78	27.1	15.5	27.4
HAYMAKER	8050	3/30/06	43	10.5	10.8	11.8
HEART LAKE TRAIL	4800	3/28/06	52	18.7	11.7	20.6
HEBGEN DAM	6550	3/27/06	40	11.6	7.5	12.0
HELL ROARING DIVIDE	5770	3/29/06	85	33.1	18.4	29.5
HERRIG JUNCTION	4850	3/29/06	74	26.3	15.9	26.0
HOLBROOK	4530	3/31/06	19	6.8	.0	8.2
HOODOO BASIN SNOTEL	6050	4/01/06	118	46.6	26.1	45.3
INDEPENDENCE	7850	3/30/06	56	18.1	12.6	17.4
INTERGAARD	6450	3/26/06	21	6.3	2.3	7.7
JAHNKE LAKE TRAIL	7200	3/25/06	32	8.4	3.5	10.4
JOHNSON PARK	6450	3/29/06	17	3.7	3.8	5.5
KEELER CREEK	3300	3/29/06	48	19.0	3.8	11.5
KINGS HILL	7500	3/29/06	41	12.7	8.8	13.7
KISHENEHN	3890	4/01/06	---	7.5E	2.1	6.8
KRAFT CREEK SNOTEL	4750	4/01/06	29	10.3	1.9	14.1
LAKE CREEK	6100	3/26/06	33	9.4	4.0	8.2
LAKEVIEW CANYON	6930	3/30/06	36	9.6	11.5	11.1
LAKEVIEW RDG. SNOTEL	7400	4/01/06	48	13.0	13.1	11.8
LEMHI RIDGE SNOTEL	8100	4/01/06	43	11.8	7.8	11.2
LICK CREEK SNOTEL	6860	4/01/06	32	10.0	8.6	13.0
LITTLE PARK	7400	3/31/06	56	18.2	10.9	15.9

APRIL 2006 SNOTEL AND SNOW COURSE SUMMARY

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
LOGAN CREEK	4300	3/28/06	25	7.2	4.0	6.7
LONE MOUNTAIN SNOTEL	8880	4/01/06	67	22.2	14.4	18.7
LOST HORSE	5940	3/30/06	81	27.8	15.4	30.7
LOST SOUL	4800	3/28/06	43	12.7	4.6	14.0
LOWER TWIN SNOTEL	7900	4/01/06	60	18.2	13.1	19.0
LUBRECHT SNOTEL	4680	4/01/06	14	3.3	.0	3.6
LUBRECHT FOREST NO 3	5450	3/26/06	16	4.6	.8	5.7
LUBRECHT FOREST NO 4	4650	3/26/06	5	1.6	.0	1.3
LUBRECHT FOREST NO 6	4040	3/26/06	8	2.8	.0	1.6
LUBRECHT HYDROPLOT	4200	3/28/06	18	5.6	.0	2.9
MADISON PLT SNOTEL	7750	4/01/06	78	27.3	19.2	25.5
MANY GLACIER SNOTEL	4900	4/01/06	33	10.7	4.0	15.3
MARIAS PASS	5250	3/29/06	45	15.7	5.4	16.8
MIDDLE MILL CREEK	7850	3/28/06	50	16.0	9.9	15.6
MILL CREEK	7500	3/31/06	45	14.2	9.8	12.6
MINERAL CREEK	4000	4/01/06	---	18.2E	1.2	17.4
MONUMENT PK SNOTEL	8850	4/01/06	76	23.9	16.0	21.0
MOSS PEAK SNOTEL	6780	4/01/06	105	39.2	27.5	38.2
MOULTON RESERVOIR	6850	3/27/06	34	8.4	2.7	6.9
MT LOCKHART SNOTEL	6400	4/01/06	55	18.4	11.7	21.1
MUDD LAKE	7650	3/29/06	59	22.1	10.0	19.7
MULE CREEK SNOTEL	8300	4/01/06	54	15.4	9.3	15.8
N.E. ENTRANCE SNOTEL	7350	4/01/06	29	10.2	6.0	11.3
NEVADA RIDGE SNOTEL	7020	4/01/06	44	15.4	9.9	15.5
NEW WORLD	6900	3/26/06	51	15.0	9.4	14.6
NEWTON MOUNTAIN	5600	3/27/06	98	38.2	14.6	33.9
NEZ PERCE CMP SNOTEL	5650	4/01/06	47	16.3	7.9	14.7
NEZ PERCE CREEK	6600	3/27/06	25	7.2	2.2	6.5
NEZ PERCE PASS	6570	3/28/06	47	15.9	6.5	17.8
N.F. ELK CR SNOTEL	6250	4/01/06	40	11.4	7.6	12.4
NF JOCKO SNOTEL	6330	4/01/06	101	45.3	28.9	45.3
NOISY BASIN SNOTEL	6040	4/01/06	119	45.0	30.9	40.9
NOTCH	8500	3/26/06	60	16.9	12.6	16.7
OPHIR PARK	7150	4/02/06	46	15.4	7.4	16.7
PALISADE CREEK	8250	3/30/06	86	34.4	12.8	29.8
PETERSON MDW SNOTEL	7200	4/01/06	36	9.3	5.9	10.5
PICKET PIN LOWER	6200	3/31/06	0	.0	.0	2.6
PICKET PIN MIDDLE	7250	3/31/06	28	8.7	5.6	10.9
PICKET PIN UPPER	8100	3/31/06	52	18.3	12.1	19.3
PICKFOOT CRK SNOTEL	6650	4/01/06	38	12.6	7.1	11.7
PIKE CREEK SNOTEL	5930	4/01/06	65	28.2	15.0	27.5
PIPESTONE PASS	7200	3/27/06	21	4.5	2.1	5.7
PLACER BASIN SNOTEL	8830	4/01/06	58	17.9	13.1	17.8
POORMAN CR SNOTEL	5100	4/01/06	101	42.3	19.3	32.7
PORCUPINE SNOTEL	6500	4/01/06	26	8.8	4.6	6.9
POTOMAGETON PARK	7150	4/03/06	49	16.2	9.3	13.8
RED MOUNTAIN	6000	3/31/06	53	18.5	10.2	18.8
RED TOP	5260	3/27/06	83	31.0	14.9	28.4
REVAIS CREEK	4800	3/28/06	0	.0	.6	1.8
ROCK CREEK	5600	3/29/06	35	12.8	7.1	9.8
ROCK CREEK MEADOW	8160	3/31/06	75	22.4	15.2	20.7
ROCKER PEAK SNOTEL	8000	4/01/06	52	14.6	9.1	14.3
ROCKY BOY SNOTEL	4700	4/01/06	6	3.2	2.4	4.4
SACAJAWEA	6550	3/28/06	41	13.6	11.4	13.8
SACAJAWEA SNOTEL	6550	4/01/06	40	15.5	13.3	14.8
SADDLE MTN SNOTEL	7900	4/01/06	81	27.8	14.7	25.8
S.F. SHIELDS SNOTEL	8100	4/01/06	66	20.4	14.1	17.7
SHORT CREEK SNOTEL	7000	4/01/06	23	6.6	4.8	6.1
SHOWER FALLS SNOTEL	8100	4/01/06	83	22.7	18.6	22.7
SKALKAHO SNOTEL	7260	4/01/06	68	25.1	12.4	24.3
SLAG-A-MELT LAKE	8750	3/25/06	84	31.5	16.5	24.9

APRIL 2006 SNOTEL AND SNOW COURSE SUMMARY

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
SLEEPING WOMAN SNTL	6150	4/01/06	45	16.2	10.5	17.2
SLIDE ROCK MOUNTAIN	7100	3/26/06	46	14.1	6.2	15.5
SMUGGLER MINE	6960	3/28/06	36	9.7	5.9	9.7
SPOTTED BEAR MTN.	7000	3/25/06	34	13.3	4.0	14.1
SPUR PARK SNOTEL	8100	4/01/06	71	22.0	17.4	21.5
STAHL PEAK SNOTEL	6030	4/01/06	104	38.3	28.8	35.3
STEMPLE PASS	6600	3/31/06	33	9.1	4.6	10.2
STORM LAKE	7780	3/27/06	46	13.5	8.3	13.3
STRYKER BASIN	6180	3/29/06	95	36.9	21.7	31.9
STUART MOUNTAIN SNTL	7400	4/01/06	93	34.5	22.0	34.2
SUCKER CREEK	3960	3/29/06	0	.0	.0	.4
TAYLOR ROAD	4080	3/29/06	10	3.5	1.9	1.7
TEN MILE LOWER	6600	3/30/06	27	7.0	3.7	7.0
TEN MILE MIDDLE	6800	3/30/06	39	11.2	6.1	11.4
TEPEE CREEK SNOTEL	8000	4/01/06	58	16.6	11.2	13.5
TIMBERLINE CREEK	8850	3/28/06	36	9.3	9.3	14.2
TIZER BASIN SNOTEL	6840	4/01/06	36	9.8	8.1	10.3
TRAIL CREEK	7090	3/25/06	36	11.8	4.2	8.5
TRINKUS LAKE	6100	3/25/06	104	44.8	28.8	42.0
TRUMAN CREEK	4060	4/01/06	---	2.8E	1.1	3.7
TV MOUNTAIN	6800	3/31/06	53	19.1	11.8	18.5
TWELVEMILE SNOTEL	5600	4/01/06	57	21.2	6.8	17.5
TWENTY-ONE MILE	7150	3/30/06	55	18.5	11.0	16.9
TWIN CREEKS	3580	3/25/06	27	9.0	.0	9.6
TWIN LAKES SNOTEL	6400	4/01/06	111	48.5	23.4	39.7
UPPER HOLLAND LAKE	6200	3/27/06	71	25.6	21.2	34.6
WALDRON SNOTEL	5600	4/01/06	35	11.2	6.5	10.8
WARM SPRINGS SNOTEL	7800	4/01/06	71	21.6	12.4	21.2
WEASEL DIVIDE	5450	3/28/06	91	33.8	23.1	32.9
WEST YELL'ST SNOTEL	6700	4/01/06	43	13.4	10.1	12.8
WHISKEY CREEK SNOTEL	6800	4/01/06	56	16.1	13.7	17.4
WHITE MILL SNOTEL	8700	4/01/06	78	25.5	17.0	24.6
WHITE PINE RIDGE	8850	3/26/06	30	5.9	3.7	6.0
WILLOW CREEK	6500	3/30/06	21	5.8	4.6	8.1
WOOD CREEK SNOTEL	5960	4/01/06	33	10.9	6.9	10.0
WRONG CREEK	5700	3/29/06	32	10.5	4.9	12.3
WRONG RIDGE	6800	3/30/06	40	12.3	7.8	18.0

Montana Water Supply Outlook Report as of April 1, 2006

March mountain precipitation was generally below to well below average and the water year precipitation was near to above average. March temperatures were generally above average and one to two degrees above normal, except in south central Montana where temperatures were one to two degrees below normal. March mountain snowpack decreased an average of 3 percent from March 1. Snow melt has begun at lower elevations and warm facing mountain exposures, but snow melt is near average for this time of year. On April 1, the mountain snowfall season is about 95 percent complete and the mountains will typically reach snowfall peaks during April. However, the storm that occurred the first week in April had warm temperatures which produced rain on snow at high mountain elevations and significant rain in the lower mountains and valleys. On April 6, the moisture finally turned more to snow at many mountain and valley locations.

Snowpack

As of APRIL 1, mountain snow water contents statewide were 101 percent of average and 169 percent of last year. West of the Divide snowpack was 101 percent of average and 190 percent of last year. East of the Divide snowpack was 96 percent of average and 143 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	MARCH % CHANGE
COLUMBIA	101	190	-2
KOOTENAI, MONTANA	106	199	0
KOOTENAI, CANADA	88	123	-4
FLATHEAD, MONTANA	100	173	-6
FLATHEAD, CANADA	111	201	+3
UPPER CLARK FORK	97	191	+1
BITTERROOT	106	211	-2
LOWER CLARK FORK	101	195	-7
MISSOURI	102	156	-2
MISSOURI HEADWATERS	104	157	-1
JEFFERSON	103	170	0
MADISON	105	146	-2
GALLATIN	105	140	-6
MISSOURI MAINSTEM	97	152	-4
HEADWATERS MAINSTEM	98	153	-6
SMITH-JUDITH-MUSSELSHELL	107	137	-10
SUN-TETON-MARIAS	88	181	-4
MILK (Bearpaw Mtns.)	103	167	-14
ST. MARY	99	212	-4
ST. MARY & MILK	99	203	+2
YELLOWSTONE	89	122	-3
UPPER YELLOWSTONE	96	138	-6
LOWER YELLOWSTONE	80	106	-2
STATE-WIDE	101	169	-3

Precipitation

March mountain and valley precipitation across the state was 84 percent of average and 77 percent of last year, while the water year precipitation was 107 percent of average and 146 percent of last year. West of the Continental Divide, March mountain and valley precipitation was 78 percent of average and 71 percent of last year and the water year precipitation was 105 percent of average and 146 percent of last year. East of the Divide, March mountain and valley precipitation was 88 percent of average and 83 percent of last year and the water year precipitation was 110 percent of average and 145 percent of last year.

RIVER BASIN	MARCH % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	78	105
KOOTENAI	78	106
FLATHEAD	73	108
UPPER CLARK FORK	81	98
BITTERROOT	83	108
LOWER CLARK FORK	83	106
MISSOURI	91	110
JEFFERSON	95	110
MADISON	93	116
GALLATIN	86	113
MISSOURI MAINSTEM	101	107
SMITH-JUDITH-MUSSELSHELL	93	115
SUN-TETON-MARIAS	80	93
MILK	55	105
ST. MARY	52	103
YELLOWSTONE	76	101
UPPER YELLOWSTONE	74	103
LOWER YELLOWSTONE	78	100
STATE-WIDE	84	107

Reservoirs

Major reservoir storages state-wide were 85 percent of average and 96 percent of last year. Reservoir storage west of the Continental Divide was 152 percent of average and 85 percent of last year. East of the Continental Divide, reservoir storage was 69 percent of average and 104 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	152	85
KOOTENAI	201	91
FLATHEAD	126	78
UPPER CLARK FORK	111	118
BITTERROOT	85	61
LOWER CLARK FORK	113	95
MISSOURI	67	103
JEFFERSON	80	135
MADISON	101	91
GALLATIN	157	107
MISSOURI MAINSTEM	64	103
SMITH-JUDITH-MUSSELSHELL	74	161
SUN-TETON-MARIAS	100	96
MILK	97	135
ST. MARY	92	51
YELLOWSTONE	102	123
UPPER YELLOWSTONE	106	89
LOWER YELLOWSTONE	102	124
STATE-WIDE	85	96

Streamflow

With near average snow melt and spring rain, streamflows are forecast to be well above those forecast last year on April 1. Even with the snowpack at near average, spring rain is necessary to maintain good streamflow into the summer.

State-wide streamflow forecasts average 82 to 97 percent. West of the Continental Divide, streamflow forecasts average 87 and 97 percent and east of the Continental Divide, average between 79 and 96 percent.

Below are averaged river basin streamflow forecast summaries for the period April 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	April-July THIS YEAR % OF AVERAGE	April-July LAST YEAR % OF AVERAGE
COLUMBIA	87 to 97	43 to 49
KOOTENAI	90 to 98	55 to 61
FLATHEAD	92 to 100	50 to 54
UPPER CLARK FORK	76 to 90	34 to 40
BITTERROOT	102 to 111	43 to 51
LOWER CLARK FORK	88 to 95	40 to 46
MISSOURI	78 to 97	41 to 56
JEFFERSON	74 to 93	33 to 47
MADISON	103 to 110	71 to 78
GALLATIN	99 to 109	61 to 71
MISSOURI MAINSTEM	85 to 100	45 to 60
SMITH-JUDITH-MUSSELSHELL	102 to 120	34 to 50
SUN-TETON-MARIAS	63 to 82	34 to 49
MILK	61 to 87	41 to 62
ST. MARY	85 to 92	64 to 70
YELLOWSTONE	83 to 94	58 to 70
UPPER YELLOWSTONE	94 to 104	59 to 69
LOWER YELLOWSTONE	67 to 81	57 to 71
STATE-WIDE	82 to 96	45 to 56

Surface Water Supply Index

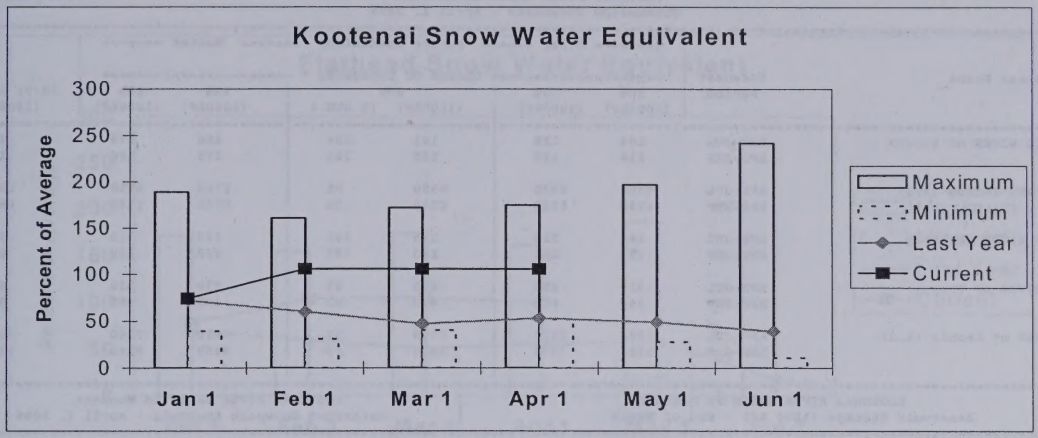
The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

This Year SWSI	Last Year SWSI	Basin
+1.2	-2.2	Tobacco River
0.0	-3.1	Kootenai Ft. Steele to Libby Dam
+2.7	-0.4	Kootenai River below Libby Dam
+1.1	-3.5	Fisher River
+0.9	-3.4	Yaak River
+0.6	-3.3	North Fork Flathead River
0.0	-3.5	Middle FORK Flathead River
+3.3	-0.5	South Fork Flathead River
+1.2	-2.3	Flathead River at Columbia Falls
+1.5	-4.0	Stillwater/Whitefish Rivers
+0.6	-4.0	Swan River
+0.4	-2.6	Flathead River at Polson
+1.4	-3.9	Mission Valley
0.0	-4.0	Little Bitterroot River
0.0	-3.8	Clark Fork River above Milltown
-1.9	-3.8	Blackfoot River
+1.8	-3.9	Bitterroot River
+0.3	-3.9	Clark Fork River below Bitterroot River
+0.4	-3.1	Clark Fork River below Flathead River
-1.4	-3.8	Beaverhead River
+0.9	-2.6	Ruby River
+0.5	-3.3	Big Hole River
+0.8	-3.9	Boulder River (Jefferson)
+1.4	-4.0	Jefferson River
+0.7	-2.0	Madison River
+1.8	-3.5	Gallatin River
+0.2	-3.3	Missouri River above Canyon Ferry
-0.3	-4.0	Missouri River below Canyon Ferry
+1.5	-3.0	Smith River
-1.5	-3.8	Sun River
-1.6	-4.0	Teton River
-2.9	-3.7	Birch/Dupuyer Creeks
-0.6	----	Upper Judith River
-1.7	-3.9	Marias River above Tiber
-0.5	-3.6	Marias River below Tiber
+2.3	-3.2	Musselshell River
-1.2	-3.1	Missouri River above Ft. Peck
-3.4	-3.6	Missouri River below Ft. Peck
0.0	----	St. Mary River
-1.6	-2.4	Milk River
-1.3	-3.9	Dearborn River near Craig
+1.2	-3.1	Yellowstone River above Livingston
+2.2	-3.0	Shields River
+0.6	-3.6	Boulder River (Yellowstone)
+0.9	-3.3	Stillwater River
-2.6	-3.6	Rock/Red Lodge Creeks
+0.2	-3.2	Clarks Fork River
+0.9	-3.2	Yellowstone River above Bighorn River
-0.3	-1.2	Bighorn River below Bighorn Lake
-0.1	-3.5	Little Bighorn River
+0.4	-2.3	Yellowstone River below Bighorn River
-1.3	-2.4	Tongue River
-0.5	-2.2	Powder River

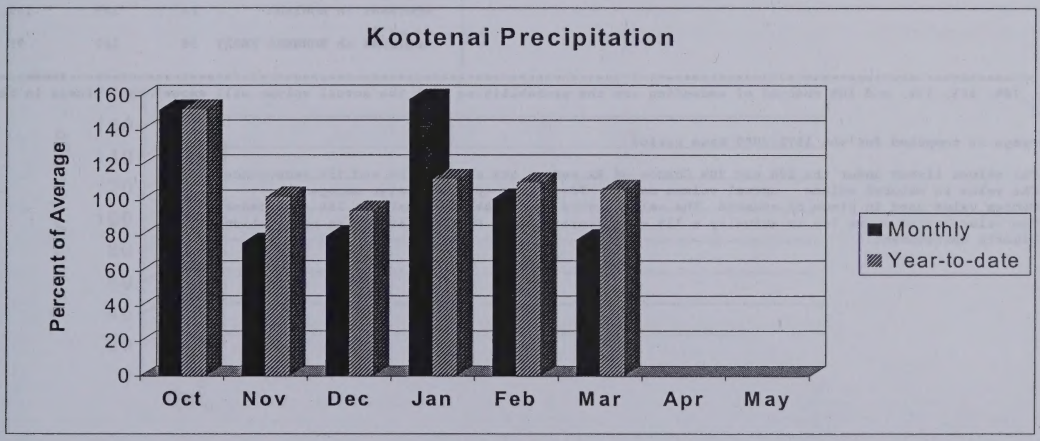
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin were slightly above average and was the same percentage as March 1. Snow water content was 106 percent of average and 199 percent of last year. Snowpack in the Kootenay in Canada were below average. Snow water content was 88 percent of average and 123 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001and 2005; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 78 percent of average and 77 percent of last year. Valley precipitation during March was 74 percent of average and 57 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 106 percent of average and 133 percent of last year.



Lake Koocanusa storage was 201 percent of average and 91 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 90 to 98 percent.

Surface Water Supply Index (SWSI) was +1.2 in the Tobacco River; 0.0 in the Kootenai Ft. Steele to Libby Dam; +2.7 in the Kootenai River below Libby Dam; +1.1 in the Fisher River; and +0.9 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	APR-JUL	104	126	141	104	156	178	136
	APR-SEP	114	139	156	104	173	196	150
LIBBY RES Inflow (1,2)	APR-JUL	4050	4940	5350	95	5760	6650	5640
	APR-SEP	4990	5880	6290	95	6700	7590	6640
FISHER RIVER nr Libby	APR-JUL	180	219	245	107	270	310	230
	APR-SEP	192	230	260	106	290	330	245
YAAK RIVER nr Troy	APR-JUL	330	390	430	93	470	530	465
	APR-SEP	345	405	450	92	495	555	490
KOOTENAI at Leonia (1,2)	APR-JUL	5640	6270	6550	93	6830	7460	7040
	APR-SEP	5980	7070	7560	93	8050	9140	8120

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	3501.0	3828.0	1743.7

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	15	137	86
KOOTENAI MAINTSTEM	8	202	110
TOBACCO	3	146	106
FISHER	5	231	95
YAAK	8	215	107
KOOTENAI in MONTANA	23	199	106
KOOTENAI ab BONNERS FERRY	38	182	99

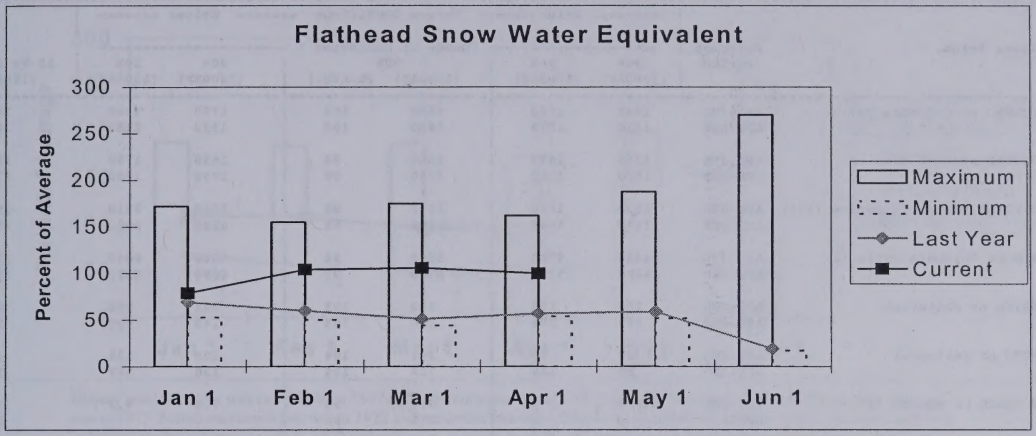
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

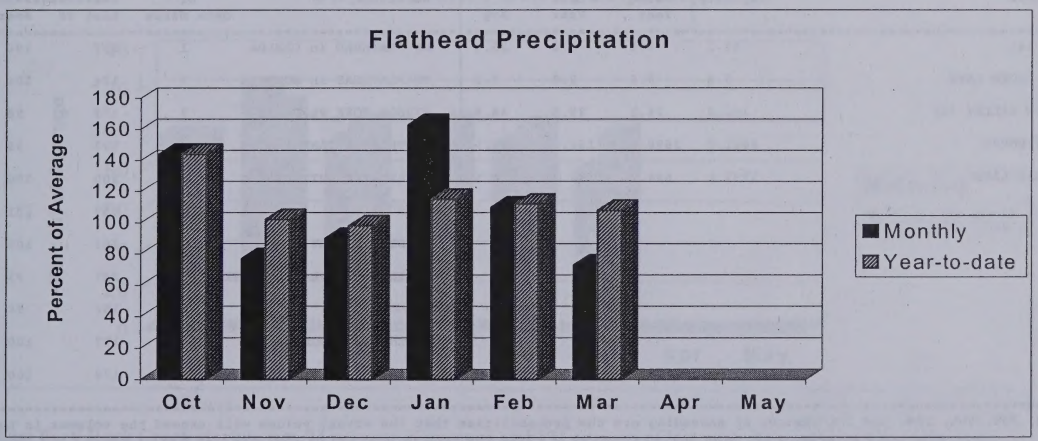
Flathead River Basin

Snowpack conditions in the Flathead River Basin were at average and decreased 6 percent from March 1. Snow water content was 100 percent of average and 173 percent of last year. Snowpack in the Flathead of Canada were above average and increased 3 percent from March 1. Snow water content was 111 percent of average and 201 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 74 percent of average and 61 percent of last year. Valley precipitation during March was 63 percent of average and 44 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 108 percent of average and 132 percent of last year.



Combined Camas reservoir storage was 34 percent of average and 139 percent of last year; Lower Jocko Lake was 0 percent of average and 0 percent of last year; combined Mission Valley reservoir storage was 62 percent of average and 61 percent of last year; Hungry Horse storage was 142 percent of average and 85 percent of last year; and Flathead Lake storage was 90 percent of average and 58 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 90 to 100 percent.

Surface Water Supply Index (SWSI) was +0.6 in the North Fork Flathead River; 0.0 in the Middle Fork Flathead River; +3.3 in the South Fork Flathead River; +1.2 in the Flathead River at Columbia Falls; +1.5 in the Stillwater/Whitefish Rivers; +0.6 in the Swan River; +0.4 in the Flathead River at Polson; +1.4 in the Mission Valley; and 0.0 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	APR-JUL	1440	1590	1690	104	1790	1940	1620
	APR-SEP	1610	1770	1880	104	1990	2150	1800
MF FLATHEAD nr West Glacier	APR-JUL	1350	1470	1550	98	1630	1750	1590
	APR-SEP	1480	1610	1700	98	1790	1920	1740
HUNGRY HORSE Reservoir Inflow (1,2)	APR-JUL	1590	1840	1950	98	2060	2310	2000
	APR-SEP	1640	1940	2080	98	2220	2520	2120
FLATHEAD at Columbia Falls (2)	APR-JUL	4480	4940	5260	98	5580	6040	5350
	APR-SEP	4890	5390	5740	99	6090	6590	5820
STILLWATER nr Whitefish	APR-JUL	139	174	198	103	221	256	192
	APR-SEP	155	194	220	105	245	285	210
WHITEFISH nr Kalispell	APR-JUL	80	95	105	104	115	130	101
	APR-SEP	89	106	118	104	130	147	114
ASHLEY CREEK nr Marion (2)	APR-JUL	4.3	5.8	6.8	94	7.8	9.3	7.2
	APRIL			2.5	93			2.7
SWAN RIVER nr Bigfork	APR-JUL	455	520	565	100	610	675	565
	APR-SEP	535	600	645	100	690	755	645
Flathead Lake inflow (1,2)	APR-JUL	4940	5740	6110	99	6480	7280	6180
	APR-SEP	5350	6220	6620	99	7020	7890	6700

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)	45.2	8.6	6.2	25.4
LOWER JOCKO LAKE	6.4	0.0	0.0	0.1
MISSION VALLEY (8)	100.0	24.2	39.5	38.8
HUNGRY HORSE	3451.0	2688.0	3164.0	1886.7
FLATHEAD LAKE	1791.0	664.7	1153.0	738.5

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	1	287	100
NF FLATHEAD in MONTANA	9	174	104
MIDDLE FORK FLATHEAD	7	173	98
SOUTH FORK FLATHEAD	9	172	98
STILLWATER-WHITEFISH	10	200	106
SWAN	8	157	101
MISSION VALLEY	4	163	103
LITTLE BITTERROOT-ASHLEY	6	247	93
JOCKO	5	156	98
FLATHEAD in MONTANA	42	177	100
FLATHEAD RIVER BASIN	43	178	100

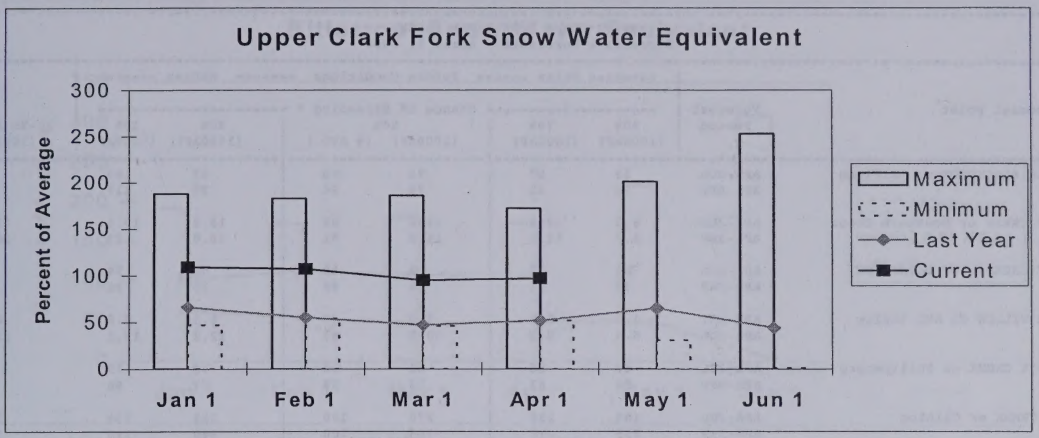
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

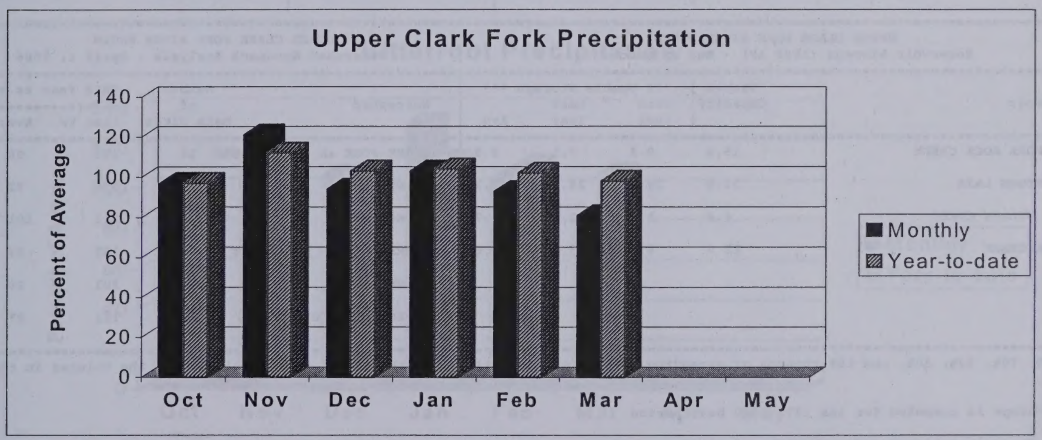
Upper Clark Fork River Basin

Snowpack conditions in the Upper Clark Fork River Basin were near average and increased 1 percent from March 1. Snow water content was 97 percent of average and 191 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during March was 82 percent of average and 81 percent of last year. Valley precipitation during March was 66 percent of average and 62 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 98 percent of average and 152 percent of last year.



East Fork Rock Creek storage was 94 percent of average and 131 percent of last year; Georgetown Lake was 114 percent of average and 104 percent of last year; Lower Willow Creek was 130 percent of average and 152 percent of last year; and Nevada Creek storage was 117 percent of average and 156 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 76 to 90 percent.

Surface Water Supply Index (SWSI) was 0.0 in the Clark Fork River above Milltown; and -1.9 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LITTLE BLACKFOOT nr Garrison	APR-JUL	35	57	72	95	87	109	76
	APR-SEP	39	63	79	94	95	119	84
FLINT CREEK nr Southern Cross	APR-JUL	6.1	10.0	12.6	92	15.2	19.4	13.7
	APR-SEP	6.8	11.6	14.8	91	18.0	23	16.2
FLINT CREEK blw Boulder Ck	APR-JUL	24	39	49	88	59	74	56
	APR-SEP	34	51	63	89	75	92	71
LOWER WILLOW CK RES Inflow	APR-MAY	4.2	5.9	7.0	85	8.1	9.8	8.2
	APR-JUL	5.2	8.2	10.2	82	12.2	15.2	12.5
MF ROCK CREEK nr Philipsburg	APR-JUL	47	56	63	98	70	79	64
	APR-SEP	52	63	70	97	77	88	72
ROCK CREEK nr Clinton	APR-JUL	185	235	270	100	305	355	270
	APR-SEP	215	270	305	100	340	395	305
CLARK FORK abv Milltown	APR-JUL	305	460	565	93	670	825	605
	APR-SEP	360	535	650	92	765	940	705
NEVADA CREEK nr Helmville	APR-MAY	3.9	6.4	8.0	78	9.6	12.1	10.3
	APR-JUL	6.3	10.5	13.4	78	16.3	20	17.3
BLACKFOOT RIVER nr Bonner	APR-JUL	485	605	690	86	775	895	805
	APR-SEP	545	675	765	86	855	990	890
CLARK FORK abv Missoula	APR-JUL	930	1120	1250	89	1380	1570	1410
	APR-SEP	1060	1270	1410	88	1550	1760	1600

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	9.3	7.1	9.9
GEORGETOWN LAKE	31.0	29.8	28.6	26.2
LOWER WILLOW CREEK	4.9	3.5	2.3	2.7
NEVADA CREEK	12.6	8.9	5.7	7.6

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	16	178	98
FLINT CREEK	7	176	92
ROCK CREEK	6	211	101
CLARK FORK ab BLACKFOOT	25	187	98
BLACKFOOT	15	201	94
UPPER CLARK FORK BASIN	38	191	97

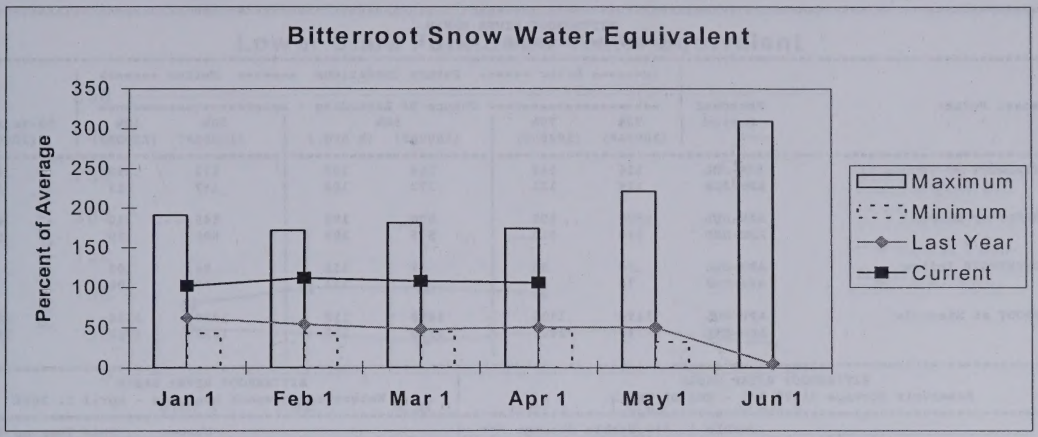
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

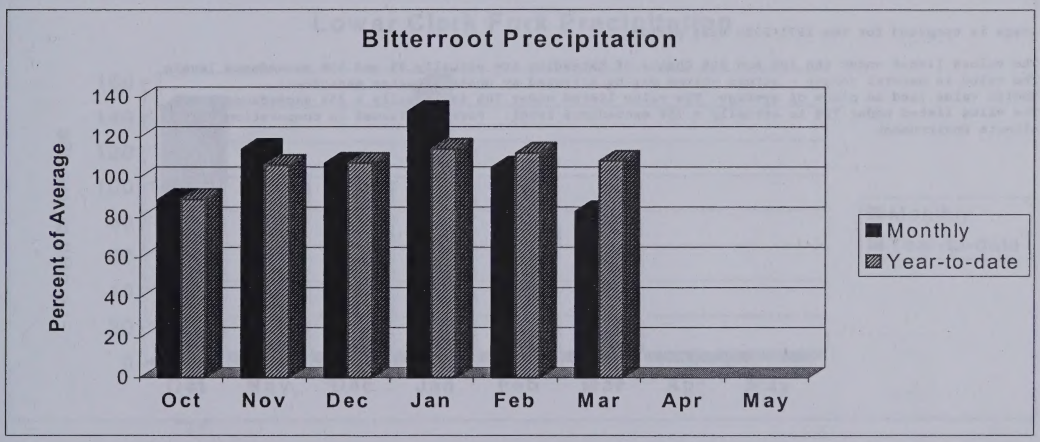
Bitterroot River Basin

Snowpack conditions in the Bitterroot River Basin were slightly above average and decreased 2 percent from March 1. Snow water content was 106 percent of average and 211 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977 and 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987,1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 82 percent of average and 95 percent of last year. Valley precipitation during March was 92 percent of average and 111 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 108 percent of average and 183 percent of last year.



Painted Rocks Lake storage was not available and Como storage was 85 percent of average and 61 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 102 to 111 percent.

Surface Water Supply Index (SWSI) was +1.8 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	APR-JUL	116	140	156	109	172	198	143
	APR-SEP	124	151	170	108	187	217	157
BITTERROOT nr Darby	APR-JUL	390	455	500	109	545	610	460
	APR-SEP	440	510	555	108	600	670	515
COMO RESERVOIR Inflow	APR-JUL	74	82	88	113	94	102	78
	APR-SEP	78	87	93	113	99	108	82
BITTERROOT at Missoula	APR-JUL	1190	1320	1400	112	1480	1610	1250
	APR-SEP	1310	1440	1530	112	1620	1750	1370

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE		NO REPORT		
COMO	34.9	12.6	20.6	14.9

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	3	206	103
EAST SIDE BITTERROOT	6	204	103
WEST SIDE BITTERROOT	4	213	110
BITTERROOT RIVER BASIN	12	211	106

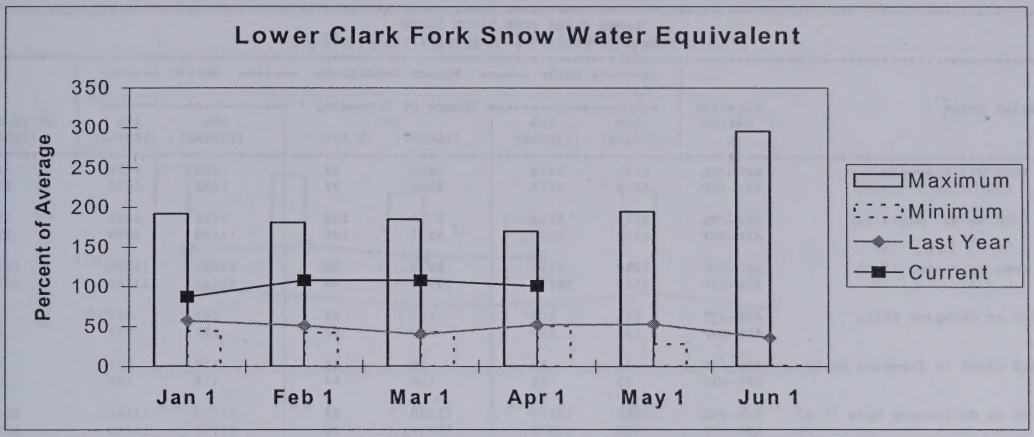
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

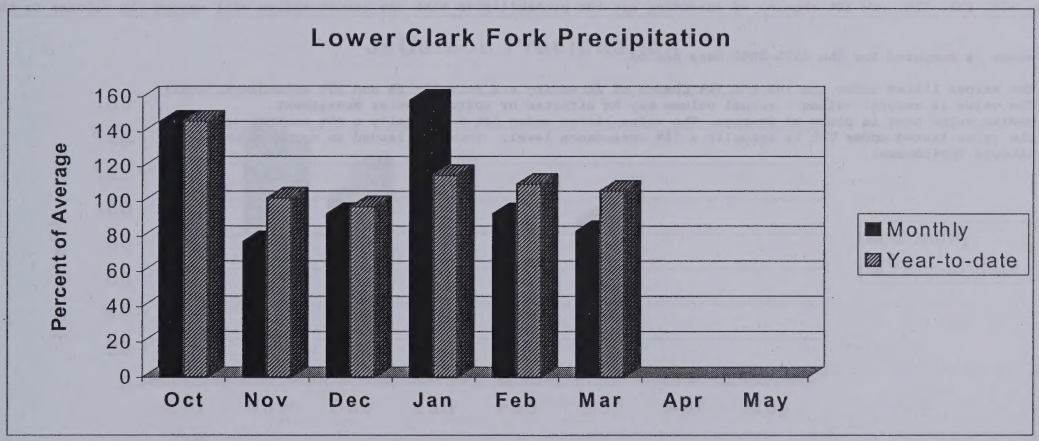
Lower Clark Fork River Basin

Snowpack conditions in the Lower Clark Fork River Basin were near average and decreased 7 percent from March 1. Snow water content was 101 percent of average and 195 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during March was 82 percent of average and 70 percent of last year. Valley precipitation during March was 87 percent of average and 69 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 106 percent of average and 153 percent of last year.



Noxon Rapids storage was 113 percent of average and 95 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 88 to 95 percent.

Surface Water Supply Index (SWSI) was +0.3 in the Clark Fork River below Bitterroot River and +0.4 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK blw Missoula	APR-JUL	2150	2440	2640	99	2840	3130	2660
	APR-SEP	2390	2710	2930	99	3150	3470	2960
CLARK FORK at St. Regis (1)	APR-JUL	2570	3230	3530	100	3830	4490	3520
	APR-SEP	2840	3580	3910	100	4240	4980	3910
CLARK FORK nr Plains (1,2)	APR-JUL	7860	9280	9930	98	10580	12000	10100
	APR-SEP	8620	10190	10900	98	11610	13180	11100
THOMPSON nr Thompson Falls	APR-JUL	143	169	187	91	205	231	205
	APR-SEP	165	192	210	91	227	257	230
PROSPECT CREEK at Thompson Falls	APR-JUL	75	89	98	85	107	121	116
	APR-SEP	82	96	106	86	116	130	124
CLARK FK at Whitehorse Rpds (1,2)	APR-JUL	8690	10350	11100	98	11850	13510	11300
	APR-SEP	9550	11370	12200	98	13030	14850	12500

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	308.9	326.6	272.9

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
LOWER CLARK FORK BASIN	14	195	101

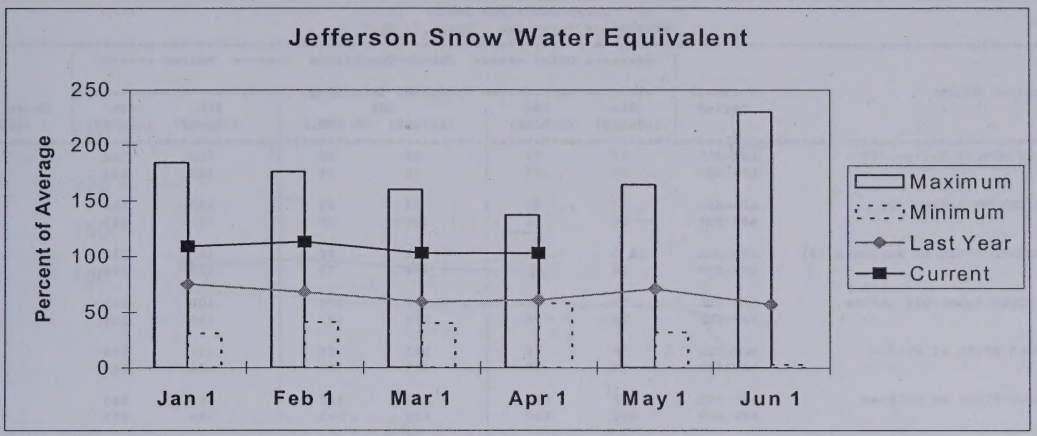
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

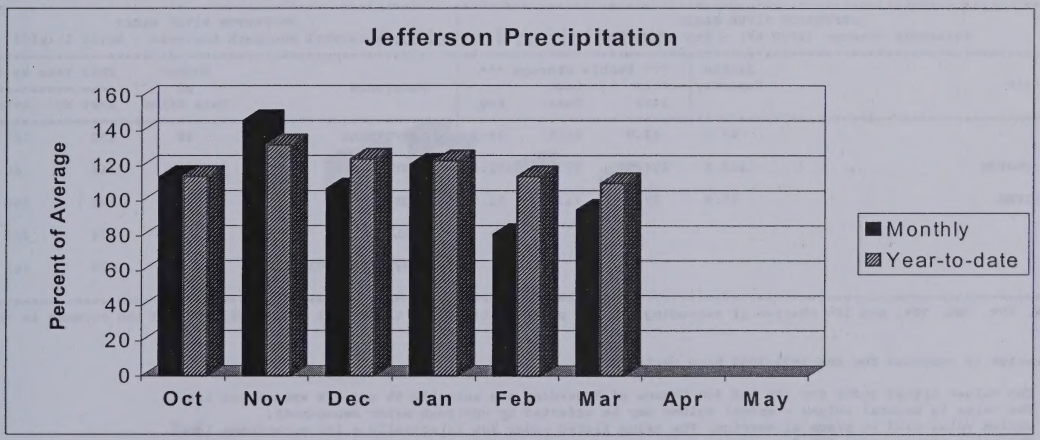
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were near average and remained the same as March 1. Snow water content was 103 percent of average and 170 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during March was 95 percent of average and 104 percent of last year. Valley precipitation during March was 85 percent of average and 95 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 110 percent of average and 158 percent of last year.



Lima storage was 107 percent of average and 99 percent of last year; Clark Canyon storage was 70 percent of average and 181 percent of last year; and Ruby River storage was 95 percent of average and 96 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 74 to 93 percent.

Surface Water Supply Index (SWSI) was -1.4 in the Beaverhead River; +0.9 in the Ruby River; +0.5 in the Big Hole River; +0.8 in the Boulder River; and +1.4 in the Jefferson River near Three Forks.

JEFFERSON RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	APR-JUL	56	73	88	92	106	138	96
	APR-SEP	60	79	96	92	116	154	104
CLARK CANYON Inflow (2)	APR-JUL	37	60	83	63	115	186	131
	APR-SEP	54	81	108	69	143	217	156
BEAVERHEAD RIVER at Barretts (2)	APR-JUL	13.0	71	111	66	151	210	168
	APR-SEP	29	97	144	72	191	260	200
RUBY RIVER Reservoir Inflow	APR-JUL	57	76	88	105	100	119	84
	APR-SEP	70	90	104	103	118	138	101
BIG HOLE RIVER at Wisdom	APR-JUL	36	79	107	88	136	178	121
	APR-SEP	39	85	114	88	144	189	130
BIG HOLE RIVER nr Melrose	APR-JUL	450	555	625	103	695	800	610
	APR-SEP	490	600	675	102	750	860	660
JEFFERSON RIVER nr Twin Bridges (2)	APR-JUL	470	640	755	96	870	1040	785
	APR-SEP	535	720	840	96	960	1140	880
BOULDER RIVER nr Boulder	APR-JUL	36	63	81	104	99	126	78
	APR-SEP	39	68	88	104	108	137	85
WILLOW CREEK Reservoir Inflow	APR-JUL	8.0	14.8	19.4	108	24	30	17.9
	APR-SEP	8.7	16.6	22	110	27	35	20
JEFFERSON RIVER nr Three Forks (2)	APR-JUL	575	735	845	108	955	1115	780
	APR-SEP	650	820	935	109	1045	1215	860

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	42.0	42.5	39.1
CLARK CANYON	255.6	106.1	58.5	152.0
RUBY RIVER	38.8	29.9	31.0	31.5

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	18	153	103
RUBY	11	146	98
BIGHOLE	21	198	104
BOULDER	9	174	101
JEFFERSON RIVER BASIN	49	170	103

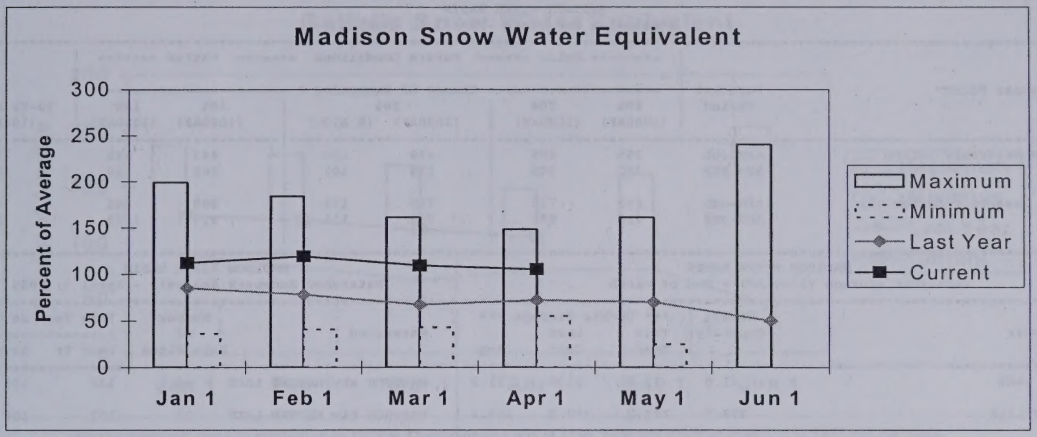
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

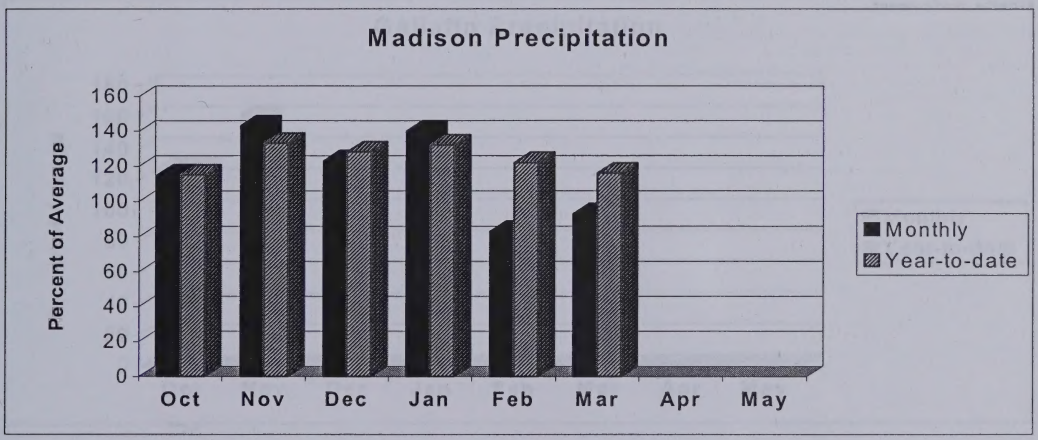
Madison River Basin

Snowpack conditions in the Madison River Basin were near average and decreased 2 percent from March 1. Snow water content was 105 percent of average and 146 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March was 93 percent of average and 103 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 116 percent of average and 152 percent of last year.



Ennis Lake storage was 95 percent of average and 95 percent of last year and Hebgen Lake storage was 102 percent of average and 91 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 103 to 110 percent.

Surface Water Supply Index (SWSI) was +0.7 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	APR-JUL	355	395	420	108	445	485	390
	APR-SEP	460	505	535	107	565	610	500
ENNIS Reservoir Inflow (2)	APR-JUL	645	710	755	111	800	865	680
	APR-SEP	810	885	940	111	995	1070	850

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	29.6	31.0	31.2
HEBGEN LAKE	377.5	264.2	290.2	259.6

MADISON RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
MADISON abv HEBGEN LAKE	6	136	106
MADISON blw HEBGEN LAKE	12	152	104
MADISON RIVER BASIN	18	146	105

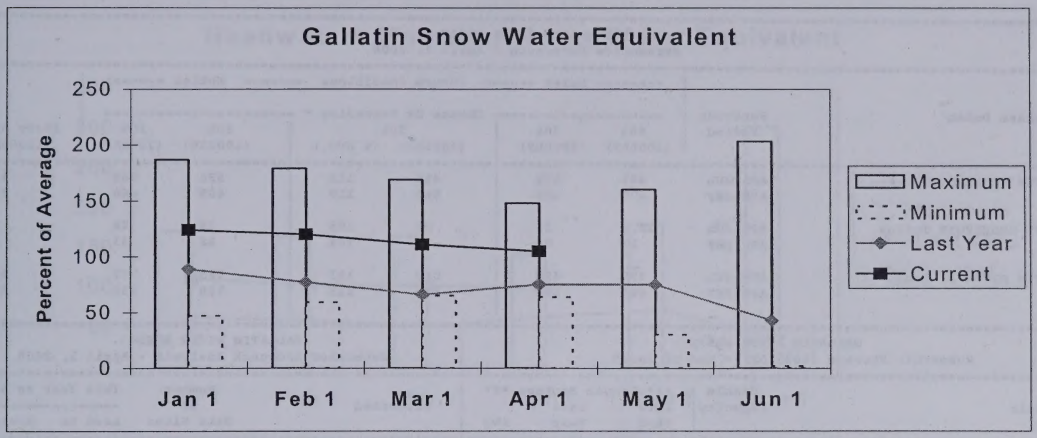
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

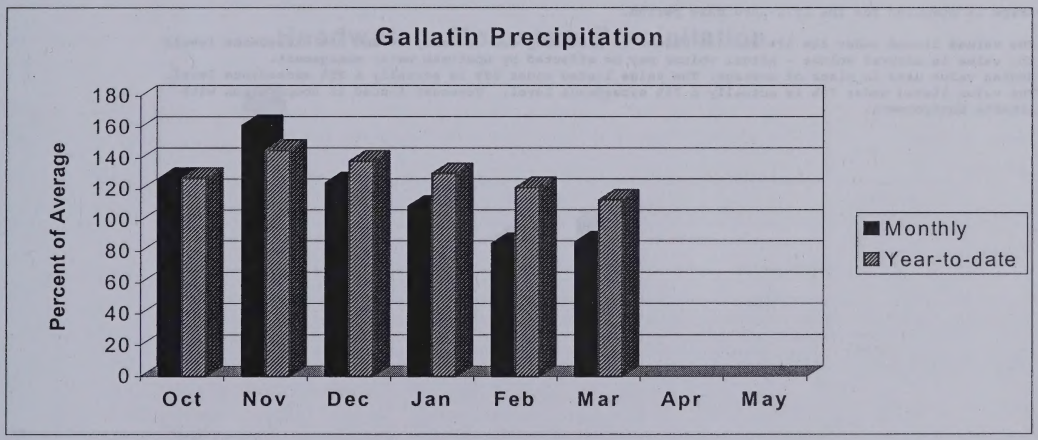
Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were near average and decreased 6 percent from March 1. Snow water content was 105 percent of average and 140 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977 and 2005; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 87 percent of average and 84 percent of last year. Valley precipitation during March was 72 percent of average and 84 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 113 percent of average and 148 percent of last year.



Middle Creek storage was 157 percent of average and 107 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 99 to 109 percent.

Surface Water Supply Index (SWSI) was +1.8 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	APR-JUL	405	450	485	110	520	565	440
	APR-SEP	470	525	565	110	605	660	515
HYALITE RESERVOIR Inflow	APR-JUL	18.3	21	23	105	25	28	22
	APR-SEP	21	24	26	104	28	31	25
GALLATIN RIVER at Logan (2)	APR-JUL	395	495	560	113	625	725	495
	APR-SEP	460	570	645	113	720	830	570

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	7.4	6.9	4.7

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	7	154	110
HYALITE	4	132	95
BRIDGER	3	118	103
GALLATIN RIVER BASIN	14	140	105

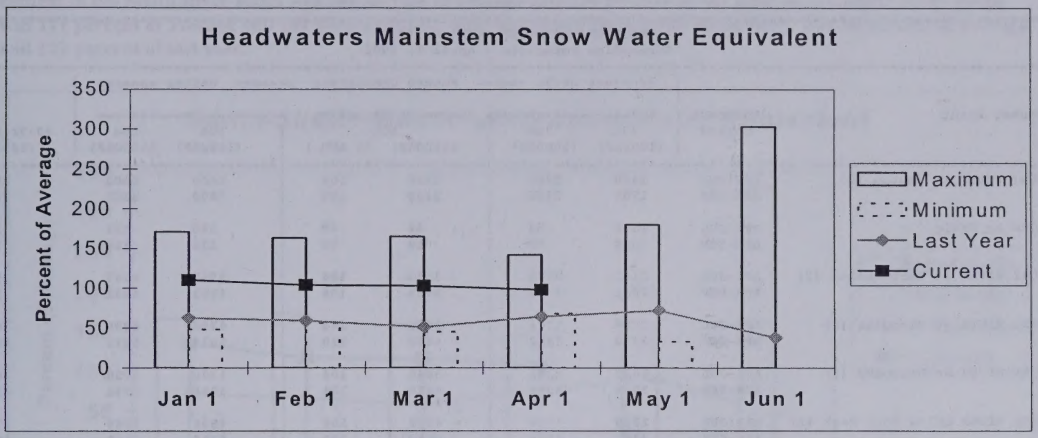
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

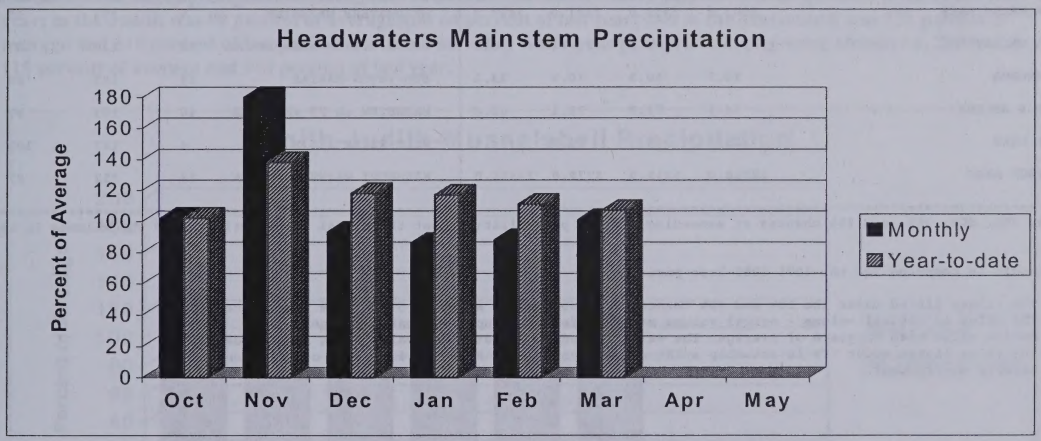
Missouri Mainstem River Basin

Snowpack conditions in the Headwaters Missouri Mainstem River Basin were near average and decreased 6 percent from March 1. Snow water content was 98 percent of average and 153 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961,1966, and 2005; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during March was 79 percent of average and 65 percent of last year. Valley precipitation during March was 137 percent of average and 111 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 107 percent of average and 149 percent of last year.



Canyon Ferry Lake storage was 86 percent of average and 91 percent of last year; Helena Valley storage was 226 percent of average and 97 percent of last year; Lake Helena storage was 83 percent of average and 102 percent of last year; Hauser & Helena storage was 118 percent of average and 101 percent of last year; Holter Lake storage was 109 percent of average and 101 percent of last year; and Fort Peck Lake storage was 62 percent of average and 105 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 85 to 100 percent.

Surface Water Supply Index (SWSI) was +0.2 in the Missouri River above Canyon Ferry; -0.3 in the Missouri River below Canyon Ferry; -1.2 in the Missouri River above Fort Peck; and -3.4 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	APR-JUL	1460	1860	2130	104	2400	2800	2050
	APR-SEP	1700	2160	2480	104	2800	3260	2390
DEARBORN nr Craig	APR-JUL	13.0	54	82	68	110	151	121
	APR-SEP	18.0	60	88	70	116	158	125
MISSOURI RIVER at Fort Benton (2)	APR-JUL	2191	2774	3170	106	3567	4147	2990
	APR-SEP	2611	3307	3780	106	4251	4951	3570
MISSOURI RIVER at Virgelle (2)	APR-JUL	2670	3343	3800	110	4255	4930	3450
	APR-SEP	3150	3942	4480	110	5016	5811	4060
MISSOURI RIVER nr Landusky (2)	APR-JUL	2632	3351	3840	104	4330	5050	3690
	APR-SEP	3095	3944	4520	104	5096	5941	4350
MISSOURI RIVER below Fort Peck (2)	APR-JUL	2815	3544	4040	108	4536	5266	3740
	APR-SEP	3262	4106	4680	108	5256	6101	4330
LAKE SAKAKAWEA Inflow (2)	APR-JUL	7010	8280	9160	94	10030	11300	9740
	APR-SEP	8060	9520	10500	94	11540	12990	11200

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1262.0	1381.0	1467.8
HELENA VALLEY	9.2	8.8	9.1	3.9
LAKE HELENA	12.7	10.9	10.7	13.1
HAUSER & HELENA	74.6	74.0	73.1	62.8
HOLTER LAKE	81.9	81.1	80.6	74.1
FORT PECK LAKE	18910.0	9231.0	8779.0	14966.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	9	153	98
SMITH-JUDITH-MUSSELSHELL	18	137	107
SUN-TETON-MARIAS	14	181	88
MAINSTEM ab FT PECK RES	40	153	97
MILK RIVER BASIN	4	167	103
MISSOURI MAINSTEM BASIN	43	152	97

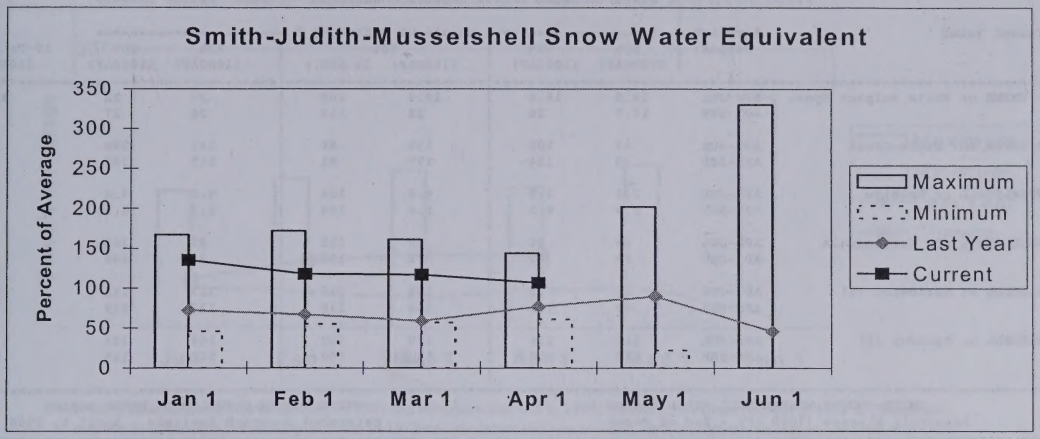
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

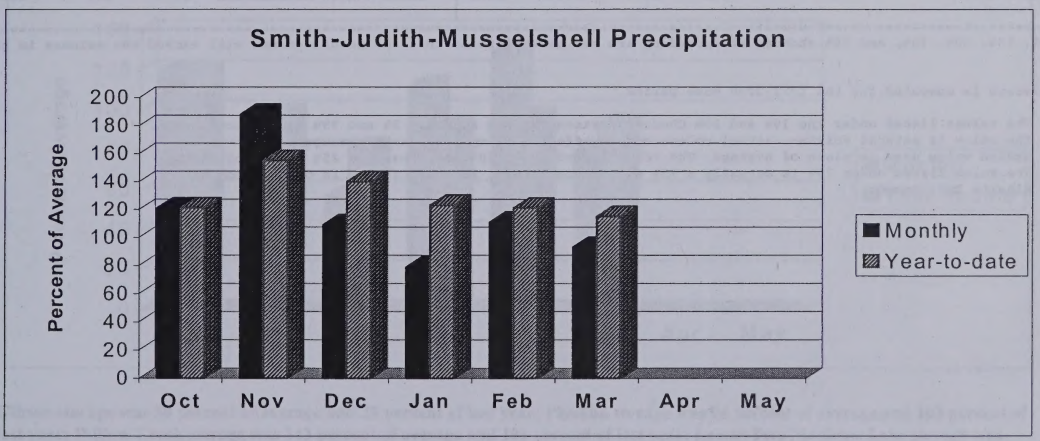
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were slightly above average and decreased 10 percent from March 1. Snow water content was 107 percent of average and 137 percent of last year. Snow water content in the Smith River Basin was 105 percent of average and 136 percent of last year; in the Judith River Basin was 111 percent of average and 141 percent of last year; and in the Musselshell Basin River was 92 percent of average and 122 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987 and 2005; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March in the Smith-Belts was 71 percent of average and 52 percent of last year; in the Judith was 98 percent of average and 64 percent of last year; and in the Musselshell was 131 percent of average and 110 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 115 percent of average and 143 percent of last year.



Smith River storage was 78 percent of average and 81 percent of last year; Ackley storage was 78 percent of average and 114 percent of last year; Bair storage was 69 percent of average and 89 percent of last year; Martinsdale storage was 83 percent of average and 220 percent of last year; and Deadman's Basin was 71 percent of average and 195 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 102 to 120 percent.

Surface Water Supply Index (SWSI) was +1.5 in the Smith River and +2.3 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	APR-JUL	14.0	16.4	18.4	108	20	22	17.1
	APR-SEP	16.7	20	22	110	24	27	20
SMITH RIVER abv Eagle Creek	APR-JUL	47	109	150	86	191	250	175
	APR-SEP	55	124	170	81	215	285	210
NF MUSSELSHELL nr Delpine	APR-JUL	2.4	3.8	4.8	104	5.8	7.2	4.6
	APR-SEP	2.9	4.5	5.6	104	6.7	8.3	5.4
SF MUSSELSHELL abv Martinsdale	APR-JUL	36	56	69	133	82	102	52
	APR-SEP	39	60	74	132	88	109	56
MUSSELSHELL at Harlowton (2)	APR-JUL	80	95	106	138	117	132	77
	APR-SEP	85	101	112	138	123	139	81
MUSSELSHELL nr Roundup (2)	APR-JUL	116	136	150	152	164	186	99
	APR-SEP	118	138	152	149	166	185	102

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	5.8	7.2	7.4
ACKLEY LAKE	7.0	2.5	2.2	3.2
BAIR	7.0	3.1	3.5	4.5
MARTINSDALE	23.1	9.0	4.1	10.9
DEADMAN'S BASIN	72.2	38.7	19.8	54.2

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	9	136	105
HIGHWOOD	0	71	0
JUDITH	8	141	111
MUSSELSHELL	8	122	92
SMITH-JUDITH-MUSSELSHELL	18	137	107

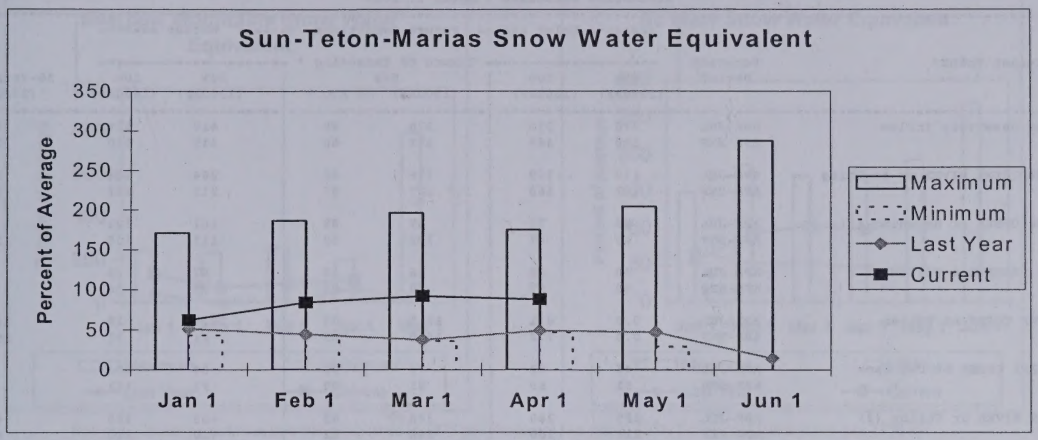
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

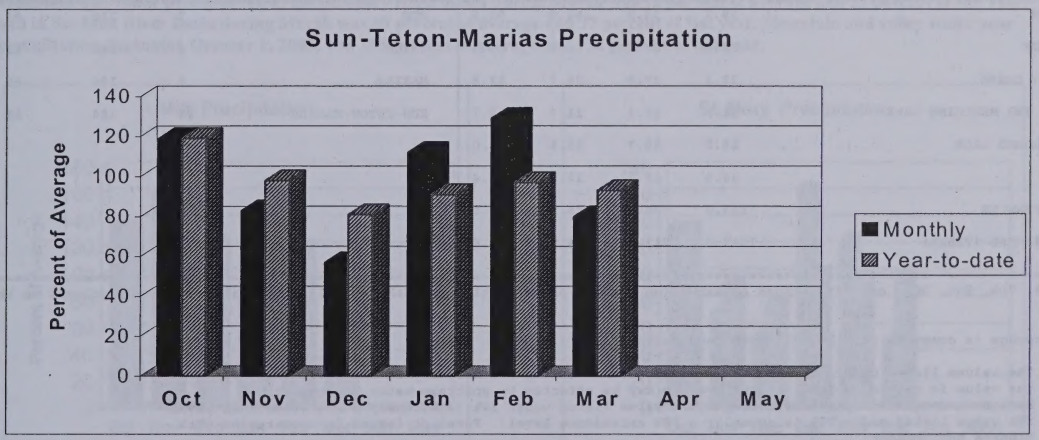
Sun-Teton-Marias River Basins

Snowpack conditions in the Sun-Teton-Marias River Basins were below average and decreased 4 percent from March 1. Snow water content was 88 percent of average and 181 percent of last year. Snow water content in the Sun River Basin was 83 percent of average and 175 percent of last year; in the Teton River Basin was 82 percent of average and 182 percent of last year; and in the Marias River Basin was 89 percent of average and 186 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March in the Sun was 103 percent of average and 78 percent of last year; in the Teton was 54 percent of average and 57 percent of last year; and in the Marias was 84 percent of average and 70 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 93 percent of average and 133 percent of last year.



Gibson storage was 30 percent of average and 29 percent of last year; Pishkun storage was 94 percent of average and 103 percent of last year; Willow Creek storage was 113 percent of average and 101 percent of last year; Lower Two Medicine Lake storage was 106 percent of average and 88 percent of last year; Four Horns Lake storage was 89 percent of average and 78 percent of last year; Swift storage was 97 percent of average and 74 percent of last year; Lake Frances storage was 51 percent of average and 97 percent of last year; and Lake Elwell (Tiber) storage was 110 percent of average and 102 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 63 to 82 percent.

Surface Water Supply Index (SWSI) was -1.5 in the Sun River; -1.6 in the Teton River; -2.9 in the Birch/Dupuyer Creeks; -1.7 in the Marias above Tiber Reservoir; and -0.5 in the Marias below Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	APR-JUL	270	330	370	80	410	470	460
	APR-SEP	300	365	405	80	445	510	505
TWO MEDICINE RIVER nr Browning	APR-JUL	110	149	176	86	204	244	205
	APR-SEP	121	160	187	87	212	252	215
BADGER CREEK nr Browning (2)	APR-JUL	53	73	87	88	101	121	99
	APR-SEP	66	87	102	89	117	138	115
SWIFT RESERVOIR Inflow	APR-JUL	30	45	56	88	67	82	64
	APR-SEP	40	57	68	88	79	96	77
DUPUYER CREEK nr Valier	APR-JUL	0.0	6.1	12.5	89	18.9	28	14.0
	APR-SEP	0.0	7.2	14.0	89	21	31	15.7
CUT BANK CREEK at Cut Bank	APR-JUL	46	62	73	90	84	100	81
	APR-SEP	51	69	81	90	93	111	90
MARIAS RIVER nr Shelby (2)	APR-JUL	195	280	340	82	400	485	415
	APR-SEP	210	300	360	82	420	510	440
TETON nr Dutton	APR-JUL	5.1	15.3	27	53	43	78	51
	APR-SEP	6.5	18.3	31	53	49	86	59

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	16.2	56.0	53.6
PISHKUN	32.0	17.2	16.7	18.3
WILLOW CREEK	32.2	27.0	26.7	23.8
LOWER TWO MEDICINE LAKE	11.9	10.3	11.7	9.7
FOUR HORNS LAKE	19.2	10.7	13.8	12.0
SWIFT	30.0	16.8	22.6	17.4
LAKE FRANCES	112.0	35.1	36.2	69.1
LAKE ELWELL (TIBER)	1347.0	712.1	694.9	645.6

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	7	175	83
TETON	4	182	82
MARIAS	6	186	89
SUN-TETON-MARIAS	15	180	89

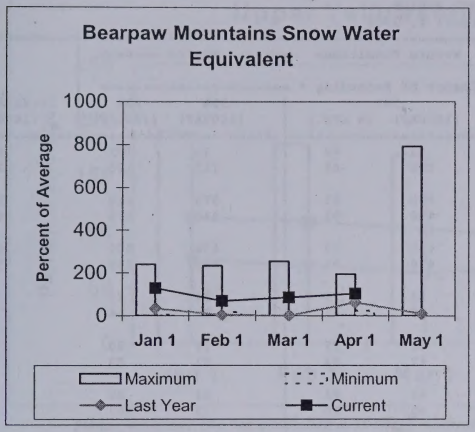
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

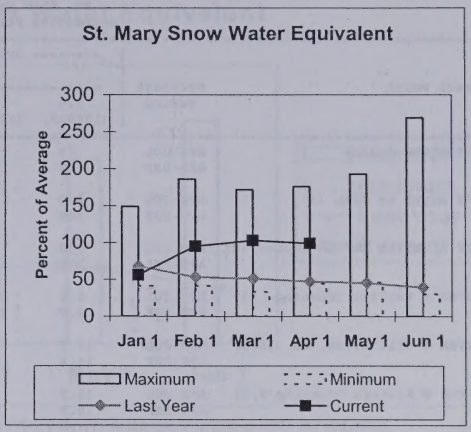
The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

St. Mary and Milk River Basins

Snowpack in the Saint Mary River Basin was near average and decreased 4 percent from March 1. Snow water content 99 percent of average and 212 percent of last year. The Milk River Basin (Bearpaw Mountains) was near average and decreased 14 percent from March 1. Snow water content was 103 percent of average and 167 percent of last year.

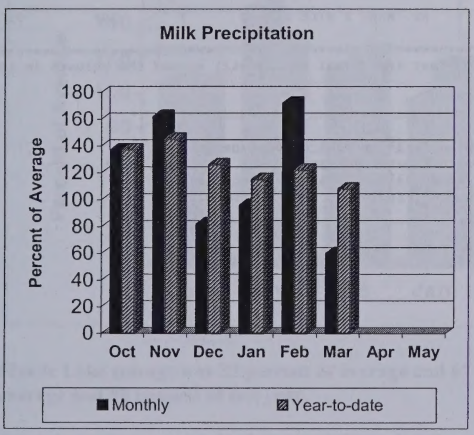


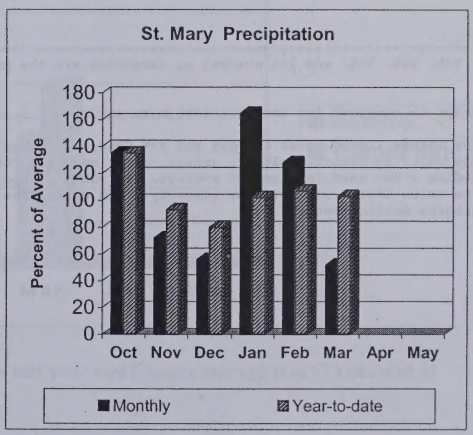


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 2005; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during March was 52 percent of average and 57 percent of last year; and in the Milk River Basin during March was 60 percent of average and 33 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 105 percent of average and 136 percent of last year.





Assuming average precipitation, April through July streamflows in the St. Mary are forecast to average 85 to 92 percent and in the Milk 61 to 87 percent.

Lake Sherburne storage was 92 percent of average and 51 percent of last year; Fresno storage was 93 percent of average and 177 percent of last year; Beaver Creek storage was 136 percent of average and 110 percent of last year; and Nelson storage was 103 percent of average and 94 percent of last year.

Surface Water Supply Index (SWSI) was 0.0 for the St. Mary and -1.6 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	APR-JUL	79	87	93	89	99	107	105
	APR-SEP	93	103	109	89	115	125	122
ST. MARY RIVER nr Babb (2)	APR-JUL	290	325	350	91	375	410	385
	APR-SEP	345	385	410	91	435	475	450
ST. MARY RIVER at US/CAN Border (2)	APR-JUL	330	380	415	95	450	500	435
	APR-SEP	395	450	490	95	530	585	515
MILK RIVER @ Western Crossing (3)	APR-JUL	8.3	13.2	26	79	34	50	33
	APR-SEP	9.0	14.4	29	81	38	56	36
MILK RIVER @ Milk River, AB (2,3)	APR-JUL	13.5	21	42	97	55	80	44
	APR-SEP	14.8	23	47	92	61	89	51
MILK RIVER @ Eastern Crossing(2,3)	APR-JUL	13.9	22	49	81	63	96	61
	APR-SEP	15.9	26	55	80	72	107	69
BEAVER CREEK near Havre	APR-JUL	1.8	4.5	6.4	74	8.3	11.1	8.7

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	23.6	46.6	25.7
FRESNO	127.0	69.7	39.4	75.0
BEAVER CREEK	3.5	3.4	3.1	2.5
NELSON	66.8	36.8	39.1	35.6

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	3	212	99
BEARPAW MOUNTAINS	4	167	103
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	4	167	103
ST. MARY & MILK BASINS	7	203	99

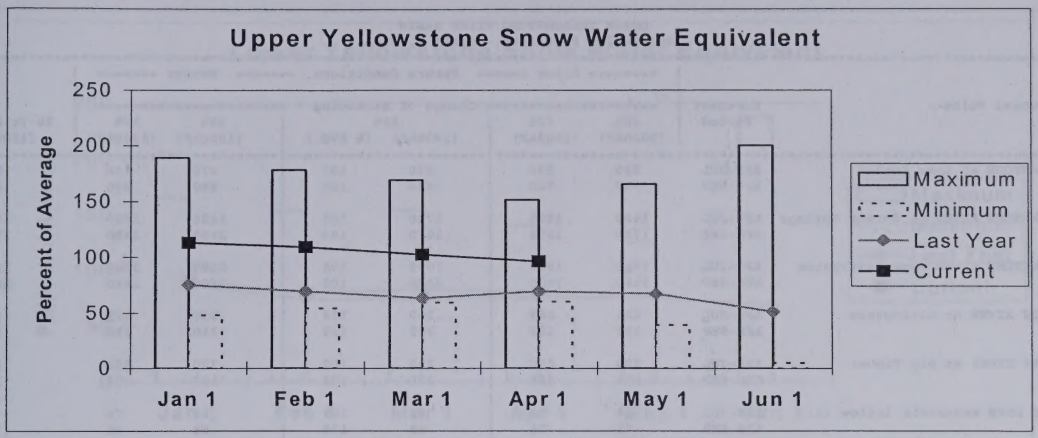
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

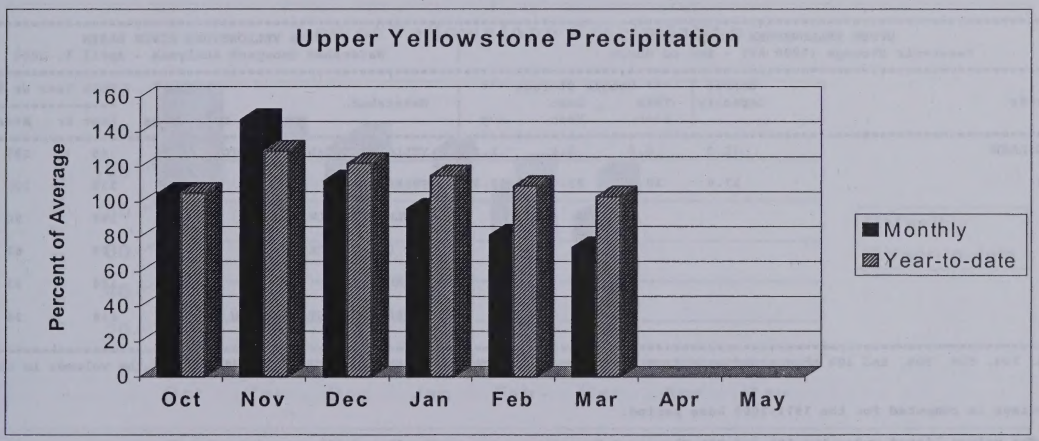
Upper Yellowstone River Basin

Snowpack conditions in the Upper Yellowstone River Basin were near average and decreased 6 percent from March 1. Snow water content was 96 percent of average and 138 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1971 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during March was 71 percent of average and 76 percent of last year. Valley precipitation during March was 91 percent of average and 102 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 103 percent of average and 138 percent of last year.



Mystic Lake storage was 33 percent of average and 67 percent of last year and Cooney storage was 113 percent of average and 90 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 94 to 104 percent.

Surface Water Supply Index (SWSI) was +1.2 in the Yellowstone River above Livingston; +2.2 in the Shields River; +0.6 in the Boulder River; +0.9 in the Stillwater River; -2.6 in the Rock/Red lodge Creeks; +0.2 in the Clarks Fork River; and +0.9 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	APR-JUL	530	590	630	107	670	730	590
	APR-SEP	710	780	830	103	880	950	805
YELLOWSTONE RIVER at Corwin Springs	APR-JUL	1480	1620	1720	104	1820	1960	1650
	APR-SEP	1790	1950	2070	105	2190	2350	1970
YELLOWSTONE RIVER near Livingston	APR-JUL	1800	1920	2000	105	2080	2200	1900
	APR-SEP	2160	2300	2400	105	2500	2640	2280
SHIELDS RIVER nr Livingston	APR-JUL	124	169	200	138	230	275	145
	APR-SEP	136	189	225	139	260	315	162
BOULDER RIVER at Big Timber	APR-JUL	220	260	290	102	320	360	285
	APR-SEP	240	285	320	102	355	400	315
MYSTIC LAKE Reservoir Inflow (2)	APR-JUL	54	60	64	109	68	74	59
	APR-SEP	71	78	83	109	88	95	76
STILLWATER RIVER nr Absarokee (2)	APR-JUL	410	470	515	104	560	620	495
	APR-SEP	500	570	615	105	660	730	585
CLARKS FORK RIVER nr Belfry	APR-JUL	440	490	525	97	560	610	540
	APR-SEP	485	540	575	97	610	665	595
COONEY RESERVOIR Inflow (2)	APR-JUL	8.9	24	34	72	44	59	47
	APR-SEP	16.0	31	42	74	53	68	57
YELLOWSTONE RIVER at Billings (2)	APR-JUL	2660	3210	3580	102	3950	4500	3510
	APR-SEP	3120	3760	4200	102	4640	5280	4120

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	0.6	0.9	1.8
COONEY	27.4	20.7	23.0	18.3

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	18	145	100
SHIELDS	7	135	109
BOULDER-STILLWATER	7	144	98
RED LODGE-ROCK CREEK	6	99	61
CLARK'S FORK	7	144	93
UPPER YELLOWSTONE BASIN	41	138	96

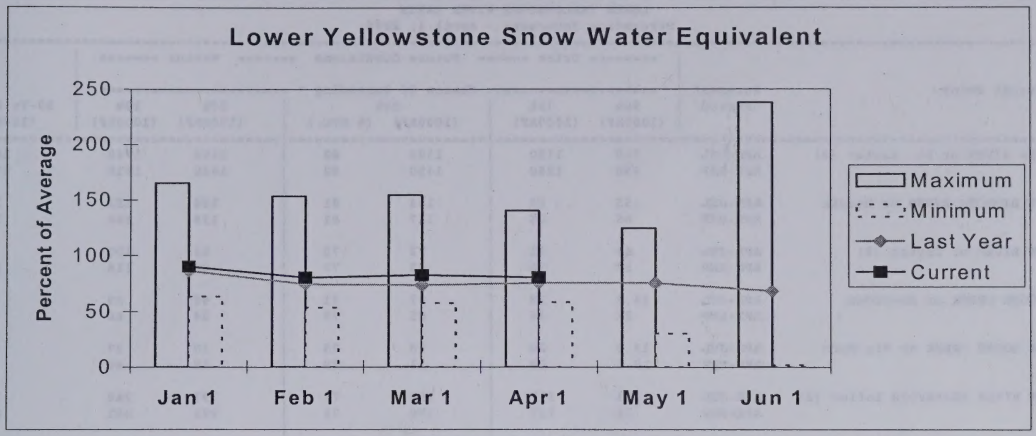
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

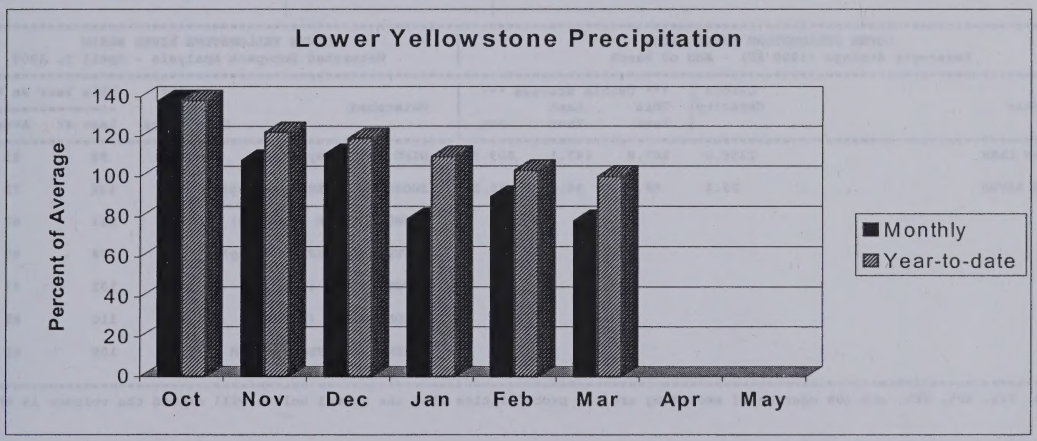
Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin were below average and decreased 2 percent from March 1. Snow water content was 80 percent of average and 106 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during March was 78 percent of average and 86 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2005, was 100 percent of average and 124 percent of last year.



Bighorn Lake storage was 100 percent of average and 125 percent of last year and Tongue River storage was 159 percent of average and 109 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 67 to 81 percent.

Surface Water Supply Index (SWSI) was -0.3 in the Bighorn River below Bighorn Lake; -0.1 in the Little Bighorn River; +0.4 in the Yellowstone River below Bighorn River; -1.3 in the Tongue River; and -0.5 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2006

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BIGHORN RIVER nr St. Xavier (2)	APR-JUL	900	1150	1320	82	1490	1740	1610
	APR-SEP	990	1260	1450	82	1640	1910	1760
LITTLE BIGHORN RIVER nr Hardin	APR-JUL	55	84	104	81	124	153	128
	APR-SEP	66	95	117	81	139	168	144
TONGUE RIVER nr Dayton (2)	APR-JUL	44	61	72	75	83	100	96
	APR-SEP	52	70	83	76	96	114	109
BIG GOOSE CREEK nr Sheridan	APR-JUL	14.8	28	37	71	46	59	52
	APR-SEP	22	36	45	75	54	68	60
LITTLE GOOSE CREEK nr Big Horn	APR-JUL	13.3	20	25	74	30	37	34
	APR-SEP	19.6	28	33	79	38	46	42
TONGUE RIVER RESERVOIR Inflow (2)	APR-JUL	61	117	155	71	193	248	220
	APR-SEP	76	137	178	71	221	281	250
YELLOWSTONE RIVER at Miles City (2)	APR-JUL	3690	4520	5090	95	5660	6490	5360
	APR-SEP	4260	5230	5890	95	6550	7520	6210
POWDER RIVER at Moorehead	APR-JUL	50	110	151	74	191	251	205
	APR-SEP	67	128	170	74	210	275	230
POWDER RIVER near Locate	APR-JUL	112	149	174	74	199	235	235
	APR-SEP	124	164	192	74	219	259	260
YELLOWSTONE RIVER nr Sidney (2)	APR-JUL	3440	4300	4880	89	5460	6320	5480
	APR-SEP	3960	4940	5610	89	6280	7260	6280

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	807.8	647.1	809.9
TONGUE RIVER	79.1	48.0	44.2	30.1

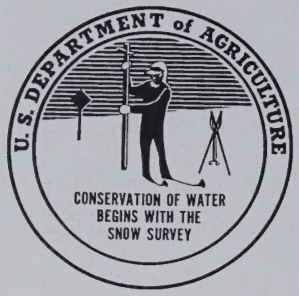
LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2006

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	20	99	81
SHOSHONE RIVER (Wyoming)	6	132	79
BIGHORN RIVER (Wyoming)	20	121	83
LITTLE BIGHORN (Wyoming)	3	108	80
TONGUE RIVER (Wyoming)	11	102	77
POWDER RIVER (Wyoming)	9	110	89
LOWER YELLOWSTONE BASIN (	49	106	80

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.



Federal Building, Room 443
10 E. Babcock
Bozeman, MT 59715

Montana
Water Supply Outlook Report

Natural Resources Conservation Service
Bozeman, MT